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With the new Genera of Michaux and others.

Intended for the use of Students in Botany.

ALMIGHTY FATHER! silent in thy praise, Thy works themselves would raise a general voice; By human foot untrod, proclaim thy pow'r, And to the choir celestial THEE resound, Th' eternal cause, support and end of ALL. THOMPSON.

GEORGETOWN, District of Columbia.

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1814.

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This little work is offered as a pocket companion to those who having studied the elements of Botany, wish to become acquainted with the many beautiful and interesting native plants, they may meet with in their walks, and facilitate their researches in more voluminous works. If it should also serve to assist the memory of the more erudite Botanist, when on excursions wherein from their size, he might be deprived of the use of books of greater importance, the intention of the compiler will be completely answered; his only desire being to be useful.

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OF THE

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(This class is not admitted by many late writers.)

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In printing a work where neither the general sense nor construction of the language could give any assistance in the correction of the press, a number of errors must have escaped detection; the following being essential, the young Botanist will do well to correct them with his pen:

Page 3. Lycopus, for calyx half 6-cleft read calyx half 5-cieft.

20. Sysimachia read Lysimachia. 33. Line 8. for with read without a partial

S4. Line 1. for Corols 5-parted, read Corols

5-petalled.

47. TETRAGYNIA read TRIGYNIA. 108. Schisandria read Schisandra.

151. Insert over Scleranthus-Order 2.... DIGYNIA.

LIPPIA .- Mich.

It ought to be observed that in some instances, the characters being taken from American species, will not exactly coincide with the foreign ones of the same Genus.

TA number of Genera omitted in their proper places will be found at the end of the work.

CLASS I MONANDRIA.

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Order 1....Monogynia.

- CANNA.—Lin ——FLOWERING REED.
 Calyx 3-leaved; Corol 6-parted; Nectary 2-parted; Capsule 3-celled.
- SALICORNIA.—Lin.—GLASS WORT.
 Calyx inflated, entire; Corol o; Seed 1 inclosed in the Calyx.
- 3. HIPPURIS.—Lin.—MARES TAIL.

 Calyx above, with a 2-lobed margin:

 Corol o; Seed 1.

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. . . 2....DIGYNIA.

- 4. CALLITRICHE.—Lin.—STAR GRASS.

 Calyx o; Corol 2-petalled; Capsule 2-celled, 4-seeded.
- BLITUM.—Lin.—BLITE.
 Calyx 3-cleft; Corol o; Seed 1, with a berried Calyx.
- 6. CINNA.—Lin.—(AGROSTIS CINNA, Turtons Lin.)
 Glume 1-flowered, 2-valved; Calyx 2-valved

CLASS II DIANDRIA.

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Order 1 MONOGYNIA.

- A.—Corol inferior, 1-fietalled, regular; border 4-fiarted.
- CHIONANTHUS—Lin.—FRINGE-TREE.
 Calyx 4-cleft; divisions of the Corol very long; Drupe, 1-celled.
- 8. LIGUSTRUM.—Lin.—PRIVET.

 Calyx, 4-toothed; Divisions of the corol ovate; Berry 4-seeded.
- 9. OLEA.—Lin.—AMERICAN OLIVE.

 Calyx 4-toothed; Divisions of the corol sub-ovate; Drupe 1-celled, Nut striate.
 - B.—Corol inferior, 1-petalled, irregular.
 Fruit capsular.
- PINGUICULA—Lin.—Burter-wort.
 Calyx 5-cleft; Corol ringent, spurred;
 Cafisule 1-cellec, ovate, gaping at top.
- 11. UTRICULARIA.—Lin.—BLADDER-WORT.
 - Calyx 2-leaved; Corol ringent; Capsule 1-celled, globular.

12. GLOBIFERA. — Gmelin. — MICRANTHE-MUM. — Michaux.

> Calyx 4-parted; Corol 4-parted, most 2lipped, upper division smaller; Capsule many seeded.

13. JUSTICIA.—Lin.—(DIANTHERA.—Lin.)

Calyx 5-parted; Corol ringent, or most equal; Capsule 2-celled, bursting with an elastic claw.

14. ELYTARIA.—Michaux.—Tubiflora.—
Gmelin.

Calyx 4-parted; Corol 5-cleft; Capsule 2-celled, 2-valved.

15. GRATIOLA.-Lin.

Calyx 5-parted; corol 4-cleft, 2-lipped reversed; stamens 4, (2 barren); stigma 2-lipped; Cafisule 2-celled.

16. VERONICA.—Lin.—SPEEDWELL.

Calyx 4-parted; Corol 4-cleft; 1 division narrower; Capsule 2-celled.

- C.—Corol inferior, 1-petalled, irregular; secds naked.
- 17. LYCOPUS.—Lin.—WATER-HOREHOUND.

 Calyx tubulous, half 6-cleft; Corol 4cleft, sub-equal, 1 division notched.
- 18. MONARDA.-Lin.

Calyx tubulous, 5-toothed; Corol ringent; upper lip involving the filaments.

19. SALVIA.—Lin.—SAGE.

Calyx, tubulous, 2-lipped, under-lip, 2-toothed; Corol ringent; Filaments transversely affixed to a pedicel.

20. COLLINSONIA.—Lin.—Horse-weed.

Calyx tubulous, 2-lipped; Corol 5-cleft, unequal, underlip many cleft, capillary.

D.—Corol Superior.

21. CIRCÆA.—Lin.—Enchanter's nightshade.

> Calyx 2-leaved; Corol 2-petalled; Caftsule hispid, 2-celled, 2-valved.

22. FRAXINUS.—Lin.——ASH-TREE.

Calyx o, or 4-cleft; Corol o, or 4-petalled, Seed 1. (POLYGAMOUS.)

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. . . 2....DIGYNIA.

23. ANTHOXANTHUM.—Lin.—SWEET scented Grass.

Calyx Glume 2-valved, 1-flowered; Corrol glume 2-valved, pointed, awned.

CLASS III....TRIANDRIA.

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Order 1....Monogynia.

A .- Flowers Superior.

24. VALERIANA.—Lin.

Caly x o. Corol 1-petalled, base gibbous; Seed 1.

25. MELOTHRIA.-Lin.

Calyx 5-cleft; Corol 5-cleft, rotate; Berry 3-celled.

26. SISYRINCHIUM.—-Lin.——Blue-ered-GRASS.

Calyx, Spathe 2-leaved; Corol 6-petalled flat; Stamens connected.

27. IXIA.—Lin.

Calyx, Spathe 2-valved; Corol 6-parted expanded, regular; Stigmas 3, simple.

28. IRIS.—Lin.—FLOWER DE LUCE

Calyx, Spathe 2-valved; Corol 6-petalled, petals alternate, reflected; Stigma petal-like.

29. DILATRIS.—Persoon.—HERITIERA.—
Michaux.

Calyx o; Corol 6-petalled hairy; 3d filament smaller. Capsule globular.

50. TRIPTERELLA.—Michaux.——(An Vo-GELIA—Gmelin?)

Calyx 6-cleft; Corol o; Stigmas 3; Cafisule 3-sided, 3-celled, many seeded.

B.—Flowers inferior.

31. COMMELINA.-Lin.

Calyx, Spathe cordate; Corol 6-petalled; Nectaries 3; cross-shaped pedicelled.

32. LEPTANTHUS .- Michaux.

Calyx, Spathe 1-flowered; Corol tubular; border 6-parted; Capsule 3-celled, many seeded.

33. SYENA.—Schreber.—Willd.—Maraca.—
Michaux.

Calyx 3-leaved; Corol 3-petalled; Capsule 1-celled, 3-valved; valves 2-seeded.

34. XYRIS.—Lin.

Calyx 2-valved; Corol 3-petalled; Caft-sule, 3-celled, many-seeded.

(Stipulicida—See No. 78.)

€.—Flowers grassy: values of the Calyx glume-like.

a: Corol o.

35. SCHOENUS.—Lin.—Bog RUSH.

Calyx fascicled chaffy scales; Seed roundish.

36. CYPERUS.—Lin.

Calyx, chaffy scales, imbricated 2 ways; Seed naked.

37. SCIRPUS .- Lin .- CLUB RUSH.

Calyx chaffy scales, imbricated every way; Seed mostly naked.

38. ERIOPHORUM.—Lin.—Corron GRASS.

Calyx imbricated scales; Seed girted with long woolly hair.

39. TRICHOPHORUM.—Pers.—(Scirpus eriophorum, etc.—Michaux.)

Calyx imbricated scales; Seed girted with capillary bristles.

40. DICHROMA.—Michaux.

Calyx many membranaceous scales imbricated every way. Seed without bristles, slightly wrinkled, crowned with a tubercule.

b. Corol 2 or more valved.

41. KYLLINGIA.—Lin.

awned.

Calyx 2-valved, Ament imbricate; seeds 3-sided.—(Stamens 1-3, Stigmas 2-3)

42. FUIRENA.—Lin.

Calyx o Ament imbricate, the scales

2....DIGYNIA.

GRASSES.

A .- Hermaphrodite.

a Glume 1-flowered.

43. ORYZOPSIS.—Michaux.

Calyx 2-valved; valves of the corof girt with a bearded ring: 2 linear appendages.

44. PANICUM .- Lin .- PANIC GRASS.

Calyx 3-valved, 3d valve dorsal and very minute.

45. DIGITARIA.—Michaux.—Syntherisma, —Walter.

Glume 2-valved, unequal, mucronate; Calyx, 1-valved. SPIKES filiform, unilateral.

46. PASPALUM.—Lin.

Calyx 2-valved, valves roundish, size and form of the corol.

47. ARISTIDA.—Lin.

Calyx 2-valved, Corol 1-valved, with 3 awns at the tip.

48. ALOPECURUS.—Lin.—Fox TAIL.

Caly x 2-valved, Corol 1-valved, simple at the tip.

49. PHALARIS.—Lin.—CANARY GRASS.

Calyx 2-valved, valves, carinate, equal including the corol.

50. MILIUM.—Lin.—MILLET.

Calyx 2-valved, valves ventricose, lard ger than the corol, nearly equal.

51. AGROSTIS .- Lin .- BENT-GRASS.

Calyx 2-valved valves acuté, shorten than the corol.

52. STIPA .- Lin .- FEATHER-GRASS.

Calyx 2-valved; Corol with a terminal awn jointed at the base.

53. SACCHARUM-Lin .- SUGAR CANE.

Calyx 2-valved, woolly on the out-side; Corol 2-valved.

34. MUHLENBERGIA.—Schreber.

Calyx 1-valved, minute, lateral; Corol 2-valved, base hairy.

55. LEERSIA .- Schreber.

Calyx o; Corol 2-valved closed; valves. compressed, boat-shaped, awnless.

56. TRICHODIUM.—-Michaux.—-Cornueq-

Caly x 2 valved, valves sub-equal acute; keel spinulous; Corol 1-valved, awnless.

(CINNA has but one Stamen,-See Note 6.)

(Anthoxanthum has 2 Stamens .- See Note 23.

b. Glumes 2 or 3-flowered.

57. AIR A .- Lin .- HAIR-GRASS.

Calyx 2-valved; Florets without the rudiment of a 3d. B

58. MELICA .- Lin .- MELIC-GRASS.

Calyx 2-valved; Florets with the rudiment of a 3d between.

59. CENCHRUS,—Lin.

Calyx 2-valved; Involucre divided, prickly, containing 3 or 4 glumes; co-rol awnless.

- c. Glumes many-flowered, in a close spike.
- 60. ELYMUS.—Lin.—Lin.—Lin.—Crass.

 Involucre 4-leaved 2-flowered; Calyx lateral 2-valved.
- 61. ELEUSINE.-- Gærtner.-- Crnosurus.—Lin.

 Calyx many-flowered in an unilateral spike; Corol 2-valved awnless.
- 62. LIMNETIS.—Persoon.—Dactrlis.—Lin.
 Tachtnotia.—Michaux.

Calyx 2-valved, inner valve smaller; Corol 2-valved, awnless, compressed, carinate.

d. Glumes many-flowered, panicled.

63. UNIOLA.—Lin.

Calyx many-valved carinate; Corol 2valved, awnless, interior valve smaller, lying within the exterior valve.

64. BRIZA.—Lin.—QUAKE-GRASS.

Calyx 2-valved; Corol ventricose, valves

cordate obtuse.

65. POA .- Lin .- MEADOW-GRASS.

Calyx 2-valved; Corol ovate; valves acutish, awnless.

66. FESTUCA .- Lin .- FESCUE-GRASS.

Calyx 2-valved; spikelett oblong, roundish with pointed glumes.

67. BROMUS .- Lin .- BROOM-GRASS.

Calyx 2-valved; Corol oblong, valves awned from below the tip.

68. AVENA.—Lin.—OAT.

Calyx 2-valved; Corol oblong; valves with a twisted awn on the back.

69. ARUNDO.-Lin.-REED.

Calyx 2-valved; Corol woolly at the base, awnless.

B.—Polygamous.

a. Glume 1-flowered.

70. ANDROPOGON. -Lin. - BEARD GRASS.

Glume 2-valved; Calyx 2-valved; exterior valve in the sessile, herinaphrodite flowers, with a long somewhat spiral awn from its base; male-flowers peduncled, naked.

71. ANTHISTIRIA.—Lin.

Glume 2-valved, with a twisted awn from the bottom of the corol in the central hermaphrodite flowers; male flowers without an awn, 4 sessile and 2 pedicelled.

72. ROTTBOELLA.—Lin.—HARD-GRASS.

Calyx fixed, mostly 1-flowered, simple or 2-parted; flowers ranged alternately on a jointed common receptacle.

73. MANISURIS.—Lin.

Glume 2-valved; exterior valve coriaceous, orbicular, notched on both sides at the base; Calyx in the male and neutral flowers uniform.

b. Glume 2 or more flowered.

74. CHLORIS.—Swartz.

Flowers dissimilar, in a unilateral spike; exterior valves generally awned—Hermaphrodite flowers sessile; male flowers pedicelled.

7.5. MIEGIA.—Persoon.—ARUNDINARIA.— Michaux.

Stigmas 3; Calyx many-flowered, 2-valved, short unequal; Corol 2-valved awnless; all the flowers with two broad lanceolate flat pointed appendages; seed naked, large.

76. HOLCUS .- Lin .- SOFT-GRASS.

Glume 2-valved; Calyx 2-valved, the exterior valve awned at the tip; Hermanhrodite and male flowers mixed.

TRIGYNIA.

a. Corol 5-petalled.

77. HOLOSTEUM.—Lin.—CHICK-WEED.

Calyx 5-leaved; Capsule 1-celled, near-

Lary x 5-leaved; Capsule 1-celled, hear ly cylindric, bursting at top.

78. STIPULICIDA.—Michaux.——Policarpon? (Persoon.)

Calyx 5-parted; Capsule 1-celled, 3- valved.

b. Corol 3-petalled.

79. LECHEA.—Lin—Menandra—Gronovius, Calyx 3-leaved; Capsule 3-celled, 3-valved, with as many inner ones; Seed 1.

(ERIOCAULON. See Monoecia Triandria.)

c. Corol o.

80. MOLLUGO.—Lin.——CARPET-WEED.

Calyx 5 leaved, inferior; Capsule 3-celled, 3-valved, many-seeded.

81. QUERIA.—Lin.

Calyx 5-leaved, inferior; Capsule 1-celled; Seed 1.

\$2. PROSERPINACA.—Lin.—TRIXIS.—Mitchel.

Calyx 3-parted superior; nut 3-sided, 3-celled, crowned by the calyx.

CLASS IV....TETRANDRIA.

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Order 1....Monogynia.

A.—Flowers, 1-fetalled, inferior.
a. One-fruited.

83. CALLICARPA—Lin.—BERNUDIANMUL-BERRY.

Calyx 4-cleft; Corol tubulous; Berry 4-seeded.

- . 84. CEPHALANTHUS.—Lin—Burron-wood.

 Calyx 4-toothed; Corol funnel-form;

 Cafisule 4-celled, not opening.
- 85. CENTUNCULUS.—Lin.—CHAFF-WEED.

 Calyx 4-cleft; Corol rotate; Cafisule 1celled, opening transversely.
- 86. PLANTAGO.—Lin.—PLANTAIN.

 Calyx 4-cleft; Corol reflected; Capsule
 2-celled, opening transversely.
- 87. POLYPREMUM.—Lin.——CAROLINA-FLAX. Calyx 4-leaved; Corol rotate; Capsule

2-celled, notched.

38. LYCIUM.—Lin:—Box-Thorn.

Calyx 4-cleft; Corol tubulous; filaments bearded, closing the throat of the corol; berry 2-celled, many-seeded.

(The foreign species are pentandrous.)

89. FRASERA .- Walter .- Michaux.

Calyx 4-cleft; Corol 4-cleft, spreading, the middle segment with a bearded gland; Capsule, compressed, 1-celled, 2-valved; seeds few, imbricate.

90. CENTAURIUM.—Persoon.——CENTAU-RELLA, Michaux,

Calyx 4-parted, appressed; Corol somewhat campanulate, 4-parted; stigma thick, glandular, somewhat 2-cleft; Capsule 1-celled, 2-valved, many-seeded, involucted with the permanent calyx and corol.

b. Two-grained.

91. HOUSTONIA .- Lin .- VENUS-PRIDE.

Calyx 4-cleft; Corol tubulous; Capsule 2-celled, 2-valved.

B .- Flowers, 1-petalled, superior.

a. One-fruited.

92. MITCHELLA.—Lin.—PARTRIDGE BERRY., Calyx 4-toothed; Corols 2, tubular; Berry 4-seeded, 2-flowered.

93. HEDYOTIS.—Lin.

Calyx 4-toothed; Corol tubular; Capsule 2-celled, many seeded; Partitions every where adhering to the receptacle.

94. SANGUISORBA.—Lin—WILD-BURNET.

Calyx 2-leaved; Corol 4-parted; Caftsule between the calyx and corol.

95. LINNÆA.-Gronov.-Lin.

Calyx 5-cleft; Corol bell-shaped 5-lobed; Berry dry, S-celled, cells 2-seeded.

b. 2-grained.

96. RUBIA.—Lin.—MADDER.

Calyx 4-toothed; Corol bell-shaped; berries 2, one-seeded.

97. GALIUM.—Lin.—BEDSTRAW.

Calyx 4-toothed; Corol flat; fruit dry.

98. SPERMACOCE.—Lin.—Button-weed.

Calyx 4-toothed; Corol tubular; Seeds
2-toothed.

99. DIODIA.-Lin.

Calyx 2-cleft; Corol tubular; Fruit 4-angled united, 2-valved.

C.—Flowers 4-petalled, inferior.

100. PTELEA.—Lin.

Calyx 4-parted; Petals coriaceous; Stigmas 2; Silique 1-seeded.

101. AMMANNIA.—Lin.

Calyx tubular 8-toothed; Petals rarely present; Capsule 4-celled.

D .- Flowers 4-petalled superior.

102. CISSUS.—Lin.

Calyx surrounding the germ. Berry round rewelled. Seed 1 bony.

103. CORNUS.—Lin.—Dog-wood.

Calyx, 4-toothed, deciduous. Druhe navelled with a 1-seeded nut.

104. LUDWIGIA.-Lin.

Calyx 4-parted. Capsule 4-cornered, 4-celled perforated at top.

105. OLDENLANDIA.—Lin.

Calyx 4-parted; Capsule 2-celled, many-seeded. Receptacle free. (Styles 1 or 2.)

E.—Flowers incomplete.

106. SYMPLOCARPUS.—Salisbury.-Dracontium.—Lin.—Pothos.—Aiton.—Skunkcabbage.

Spathe; Spadix covered with flowers; Petals 4, wedge shaped; Berries globose, 1-seeded, inclosed in a spongy receptacle.

107. ISNARDIA.-Lin.

Calyx 4-parted; Capsule 4-celled, many-seeded, encompassed by the Calyx.

—Ammania No.101, is most frequently found without petals.

The petals are wanting in some species of LUDWIGIA.

. . . 2....DIGYNIA.

108. HAMAMELIS.—Lin.—WITER-HAZEL.

Calyx, double; Petals 4, very, long; Nut
2-celled, 2-horned.

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. . . S....TETRAGYNIA.

109. ILEX.—Lin:—Hollr.

Calyx 4-toothed; Corol 4-parted, rotate;

Berry 4-celled, cells 1-seeded.

110: RUPPIA.—Lin.

Calyx o; Corol o; Seeds 4, pedicelled.

111. SAGINA .- Lîn .- PEARL-WORT.

Calyx 4-leaved; Petals 4; Cafisule 4-celled, 4-valved; many-seeded.
(S. Virginica, is Monogynous, with a 1-

(S. Virginica, is Monogynous, with a 1celled Capsule; perturns not of this genus.)

112. POTAMOGETON.—Lin.—Pond-weed. Calyx 0; Petals 4; Style 0; Seeds 4.

CLASS V....PENTANDRIA.

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Order 1....Monogynia.

A.—Flowers 1-petalled inferior; 4 naked seeds.—Asperifolia.

413. PULMONARIA.—Lin.—Lung-wort.

Calyx, 5-parted; Corol funnel-form,
throat open; Seed roundish, obtuse.

114. LITHOSPERMUM.—Lin.—GROMWELL.

Culyx 5-parted; Corol funnel-form, throat open; Seed ovate, pointed.

113. LYCOPSIS.—Lin.

Calyx 5-parted; Corol funnel-form, throat closed; tube curved.

116. CYNOGLOSSUM.—Lin.—Hound'srongue.

Calyx 5-parted; Corol funnel-form, throat closed; Seeds depressed, affixed to the Style.

117. ANCHUSA.—Lin.—AEKANET.

Calyx 5-parted; Corol funnel-form, throat closed; Seeds engraved at the base.

118. MYOSOTIS.—Lin.—Mouse-EAR.

Calyx half 5-cleft; Corol salver-form,
lobes slightly notched, throat closed.

119. BATSCHIA.—Gmelin.—Michaux.

Calyx 5-cleft; Corol salver-form; throat open, lobes rounded.

120. HELIOTROPIUM.-Lin.-TURNSOLE.

Calyx tubulous, 5-toothed; Corol salver-form; 5-cleft, with teeth between the divisions; throat open.

121. ONOSMODIUM.—Michaux.

Calyx deeply 5-parted; Corol oblong; somewhat bell'd; throat open, border ventricose, half 5-cleft; Anthers sessile; style exserted.

B.—Flowers 1-petalled, inferior; seeds covered.

a. with a 1-celled capsule.

122. HYDROPHYLLUM.—Lin.—WATER-

Calyx 5-parted; Corol bell'd, 5-cleft, with 5 longitudinal melliferous; grooves inside; Capsule globose, 2-valved.

123. ANAGALLIS.—Lin.—PIMPERNEL.

Calyx 5-parted; Corol wheel-shaped;

Cansule circumcised, seeds numerous.

124. SYSIMACHIA.—Lin.—Loose-strife,

Calyx 5 parted; Corol wheel-shaped; Capsule globular 1-valved; seeds numerous,

125. DODECATHEON.—Lin.——AMERICAN COWSLIP.

Calyx half 5 · left; Corol wheel-shaped, reflected; Cansule oblong, seeds numerous.

- 126. MENYANTHES.—Lin.—Buck-Bean.

 Calyx 5-parted; Corol funnel-form, hairy; Cafisule evate, seeds numerous.
- 127. PRIMULA.--Lin.—PRIMROSE. COWSLIP.

 Calyx 5-cornered, 5-toothed; Corol funnel-form, throat open; Capsule with a
 10-cleft mouth.

b. With a 2-celled Capsule.

- 128. SPIGELIA.—Lin.—PINK-ROOT:

 Calyx, 5-parted; Corol funnel-form;
 Stigma simple.
- 129. OPHIORRHIZA Lin.

 Calyx, 5-toothed; Corol funnel-form;

 Stigma 2-cleft.
- 130. CONVOLVOLUS.—Lin.—BIND-WEED.

 Calyx 5 parted; Corol campanulate,
 plaited; Stigma 2-cleft.
- 131 DATURA.—Lin.—THORN-APPLE.

 Calyx tubular, 5-angled, 5-toothed;

 Corol funnel-form.
- 132. NICOTIANA.—Lin.—Toracco.

 Calyx half 5 cleft; Corol funnel-form;

 Stigma notched.
- 133. VERBASCUM.—*Lin.*—*Mullein*.

 Calyx 5-parted; Corol wheel-shaped;
 Stamens declined, hairy.
- 134. CHIRONIA.—Lin.—Centaurt.

 Calyx 5-parted; Corol salver-shaped;

 Anthers becoming spiral.

135. GELSEMIUM.—Jussieu.—Michaux.— Bignonia.—Lin.

Calyx 5-toothed; ·Corel funnel·form, border 5-lobed, sub-equal; Capsulc compressed, with a groove in the middle.

136. PHACELIA .- Jussieu .- Michaux.

Calyx 5-parted; Corol somewhat bell'd, 5-cleft; Stamens exserted; Capsule 2-valved, 4-seeded.

137. DICHONDRA.—Forster.—Michaux.—
Demidofia.—Gmelin.

Calyx 5-parted, divisions somewhat spatule-shaped; Corol somewhat bell'd; Capsule 2-part twin'd, 2-seeded.

c. with 3-celled Capsules.

138. DIAPENSIA.—Lin.—PTXIDANTHERA.—
Michaux.

Calyx 8-leaved; Coral salver-form, 5cleft; Stamens crowning the tube of the corol.

139. PHLOX.—Lin.—FALSE LYCHNIS.

Calyx 10-angled, 5-toothed; Corol salver-form, with a curved tube.

140. POLEMONIUM.—Lin.—Jacob's-lad-DER.

Calyx half 5-cleft; Corol rotate, 5-parted; Stamens on the valves of the tube.

141. IPOMOEA.-Lin.-QUAMOCLIT.

Calyx 5-cleft; Corol funnel-form; Stig-ma globe-headed.

142. IPOMOPSIS.—Michaux—IPOMOZA.—Liu. CANTUA.—Willd.—GILIA.—Persoon. Calyx half 5-cleft; Corol funnel-form;

Calyx half 5-cleft; Corol funnel-form, Stigma deeply 3-cleft.

d. Capsule 5-ceiled.

143. AZALEA.—Lin.-Swamp Honer-suckle, Calyx5-parted; Corol campanulate, half 5-cleft.

e. Follicles 2, erect.

144. ECHITES.—Lin.

Calyx5-parted; Co ol funnel-form, throat
naked, with 5 glands surrounding the
germ.

145. AMSONIA.—Walter. Michaux.—Taber-NAEMONTANA.—Lin.
Calyx 5-parted; Corol funnel-form; throat closed.

146. VINCA.—Lin.—Perriwinkle.

Calyx 5-parted; Corol salver-form,
border 5-cleft, the divisions oblique.

f. with a 1-seeded drupe.

447. BUMELIA.—Willd.—SIDE-ROXYLON.—
Lin.—Michaux.

Calyx 5-leaved; Corol-salver-form, 5-2 parted; Nectary 5-leaved.

g. With a 5-seeded drupe.

148. SIDEROXYLON.—Lin.

Calyx 5-leaved; Corol sub-rotate, 5cleft; Scales, 5-sawed, alternate with
the petals.

h. With a 2-celled Berry.

149. SOLANUM.—Lin.—POTATOE, TOMATO, NIGHT-SHADE, &c.

Calyx 5-cleft; Corol rotate; Anthers with 2 pores; seeds numerous.

150. PHYSALIS .- Lin .- GROUND-CHERRY.

Calyx 5-cleft inflated; Corol rotate;
Anthers converging; seeds numerous.

151. ELLISIA .- Lin.

Calyx deeply 5-cleft; Corol funnelform; Seeds 2, one upon the other.

C .- Flowers 1-petalled half inferior.

152. SAMOLUS .- Lin .- BROOK-WEED.

Calyx 5-cleft; Corol salver-form, 5lobed with intermediate scales; Stamens inserted into the tube, opposite the segments; Capsule 1-celled, 5-toothed, many-seeded.

D .- Flowers 1-petalled superior.

153. CAMPANULA .- Lin, -BELL-FLOWER.

Calyx 5-parted; Corol campanulate; Stigma 3-cleft; Capsule 3-5-celled.

154. LOBELIA.—Lin.—CARDINAL-FLOWER.

Calyx 5-toothed; Corolirregular; Stigma simple; Capsule 2-3-celled.

155. LONICERA.—Lin.-- CAPRIFOLIUM.—Michaux.—Honer-Suckle,

Calyx 5-parted; Corol tubulous unequal; Berry 3-celled, roundish many-seeded.

156. XYLOSTEUM.—Tourn.—Mich.—Lonicera.—Lin.

Calyx 5-parted; Corol tubular, border 5-parted, nearly equal; berries 2, conioined.

157. SYMPHORIA.—(Symphoricarpus.)

Dill.—Mich.—Lonicera.—Lin.—

Shrubbr st. peter's-wort.

Calyx 5-toothed; Corol campanulate, 5-parted; Capsule crowned, 4-celled, 4-seeded; (2 cells sometimes abortive.)

158. DIERVILLA.—Tourn.—Mich.—Lonice-

Calyx oblong, 5-cleft; Corol funnel-form, border 5-cleft, spreading; Capsule oblong, 4-celled, many-seeded.

159. TRIOSTEUM.—Lin.

Calyx 5-cleft; Corol tubular, border 5-lobed; Berry 3-celled, 3-seeded.

160. CINCHONA.—Lin.—PINCKNETA.—Michaux.

Calyx top-shaped, 5-toothed; Corol tubular, 5-cleft; Stamens inserted into the middle of the tube; Capsule oblong, 2-valved, 2-celled, many seeded.

E.—Flowers 5-petalled inferior.

161. RHAMNUS.—Lin.—Buck-Thorn.

Calyx cup-shaped; Petals 5 converging scales; Berry 3 celled, round.

- 162. CEANOTHUS.—Lin.—JERSET-TEA.

 Calyx tubular, bearing the corol; Berry
 3-grained, dry.
- 163. CELASTRUS.—Lin.—STAFF TREE.

 Calyx flat; Corol 5-petalled, spreading;
 Berry 3-grained; Stigma 3-cleft.
- 164. EVONYMUS.—Lin.—Spindle-Tree.

 Calyx 5-parted flat; Corol 5-petalled flat; Berry capsular, 5-angled, 5-celled.
- 165. VITIS.—Lin.—VINE.

 Calyx 5-toothed; Petals cohering at the tip, withered, minute; Berry 5-seeded.

 (Most of the species are dioecious.)
- 166. AMPELOPSIS.--Michaux--Viris-- Willd. Calyx5-toothed; Petals reflexed, spreading; Berry 5-seeded.
- 167. CYRILLA.—Lin.—Michaux.--Itea.--L'-Heritier.

Calyx minute, 5-parted, superior; Corol starred, spreading; style 2-cleft; Berry dry, 3-celled; seed solitary.

- † 168. IMPATIENS.—Lin.—Touch-me-nor.

 Calyx 2-leaved; Corol irregular, spurred; Anthers cohering; Capsule elastic, 1-celled, 5-valved.
 - 169. VIOLA.—Lin.—VIOLET.

 Calyx 5-leaved; Corol irregular, spurred; Anthers c hering; Cafisale 3-cormercd, 1-celled, 5-valved.

17.0. CLAYTONIA.—Lin.

Calyx 2-valved; Stigma 3-cleft; Capsule 1-celled, 3-valved; Seeds 3.

171. ITEA.—Lin.

Calyx 5-cleft, bearing the corol; Stigma obtuse; Capsule 1-celled, 2-valved; Seeds numerous.

172. GALAX — Lin. — ERTTHRORHIZA. — Mi-

chaux.—Blandfordia, Andrews—So-Lenandria—Ventenat.

Calyx 5-cleft; Nectary tubular in 10segments alternately bearing the stamens; Capsule 3-celled, 3-valved, many-seeded.

F.—Flower 5-petalled, superior.

173. RIBES .- Lin-Goose-BERRY .- CURRANT.

Calyx bearing the corol; Style 2-cleft; Berry many seeded.

G.—Flowers incomplete, inferior; (Coral o.)

174. ACHYRANTHES.—Lin.

Calyx outer 3-leaved, inner 5-leaved; Nectary 5 valves; Seed solitary, covered with the converging leaflets of the calyx.

175. GLAUX .- Lin.

Calyx 5-parted, coloured; Capsule 1-celled, 5-valved 5-seeded.

176. ILLECEBRUM.—Lin.

Calyx 5-leaved, cartilaginous; Stigma simple; Capsule 5-valved, 1-secded.

177. ANYCHIA.-Michaux.

Calyx converging; Capsule bladder-like, not opening, Seed 1.

H.—Flowers incomplete, superior:
(Corol o.)

178. THESIUM.—Lin.

Calyx half 5-cleft, bearing the stamens and containing 1 seed.

179. NYSSA .- Lin .- TUPELO-TREE.

Calyx 5-cleft; Drupe with a sulcated, angular, Irregular, 1-seeded nut.

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... 2....Digynia.

A.—Follicles 2; Corolla 1-petalled, border 5-parted.

180. CYNANCHUM .- Lin .- CHOAK-DOG.

Calyx 5-toothed; Corol rotate; Nectary cylindric, mouth 5-toothed.

181. APOCYNUM -Lin. - Dog's-BANE.

Calyx half 5-cleft; Corol campanulate; Nectaries 5, glandular, with 5 bristles.

182. ASCLEPIAS.-Lin.-SILK-WEED.

Calyx 5-cleft; Corol reflected; Nectaries 5, car-shaped, clawed.

B.—Capsules 1 or 2-celled, 2-valved; Corol 1-fietalled,

183. SWERTIA.—Lin.—False-gentian.

Calyx5-parted; Corol rotate, with nectariferous pores at the base of the divisions,

184. GENTIANA.—Lin.—GENTIAN.

Calyx 5-parted; Corol, base tubular, without pores.

185. CUSCUTA. - Lin. - DODDER.

Calyx 5-cleft, inferior; Corol 5 cleft; Capsule 2-celled, dividing horizontally; seeds in pairs.

186. HYDROLEA.—Lin.

Calyx 5-leaved; Corol wheel-shaped; Filaments heart-shaped at the base; Styles long, diverging; Stigmas capitate peltate; Capsule 2-celled, 2-valved.

C .- Corol 5-petalled.

187. HEUCHERA.—Lin.—ALLUM-ROOT.

Calyx half 5-cleft, inferior; Corol inserted on the calyx; Capsule 2-beaked, 2-celled.

188. PANAX.—Lin.—GINSENG.

Polygamous. Involucre, many-leaved; Calyx5-toothed, superior; Berry heartshaped, 2-seeded; Calyx in the male flower entire.

D .- Flowers incomplete; Corol o.

189. SALSOLA.—Lin.—GLASS-WORT.

Calyx 5-leaved, base capsular; Capsule ovate, 1-celled, 1-seeded; Seed large spiral, snail-shell-like.

190. CHENOPODIUM .- Lin .- Goose-Foor.

Calyx 5-leaved, 5-angled; Seed 1, lenticular, invested by the calyx.

191. HERNIARIA.—Lin.—Rupture-wort.

Calyx 5-parted, inferior; Stamens with 5 barren filaments between them; Calusule 1-seeded, covered with the calyx.

192. ATRIPLEX.-Lin.-ORACHE.

Polygamous. Calyx 5-leaved; Seed 1, orbiculate, depressed; Female flowers intermixed; Calyx 2-leaved; Seed 1, compressed.

193. ULMUS.—Lin.—Elm.

Calyx top shaped; border 5-cleft; Seed 1, enclosed in a flat membranaceous capsule.

194. PLANERA .- Gmelin .- WATER-ELM.

Polygamous. Calyx membranaceous 4-5-cleft; Capsule sub-globose, membranaceous (not winged) 1-seeded. Male flowers intermixed; Stamens 4-6.

195. CELTIS .- Lin .- NETTLE-TREE.

Polygamous. Calyx 5-parted; Styles-spreading, thickish; Drupe 1-seeded Male-flowers beneath the hermaphrodite flowers; Calyx6-parted; Stamens 6.

E.—Flowers 5 petalled, superior: 2-seeded; UMBELLIFERE.

a. With gene al and partial Involucre.

196. ERYNGIUM.—Lin.—Errngo.

Involucres many-leaved; Flowers in heads, all fertile; Receptacle scaly; seeds bristly.

197. HYDROCOTYLE.—Lin.—WATER NA-

Flowers all fertile, somewhat umbelled; Involucre 4-leaved; Petals entire; Seeds orbicular, compressed.

198. SANICULA.—Lin.—SANICLE.

Flowers somewhat umbelled, those of the centre abortive; umbels clustered in small heads; seeds prickly.

199. HERACLEUM.—Lin.—Cow-PARSNIP.

General Involucre deciduous; Flowers not uniform, some abortive; Petals notched, with an inflected point; fruit compressed, striate, membranaceous.

200. OENANTHE.—Lin.—Water-dropwort.

Involucre many leaved, simple; Flowers not uniform, central ones sessile, abortive; Fruit striate, retuse, crowned with the calyx and styles; covered with a corky coat.

201. DAUCUS -Lin. - CARROT.

Involucres pinnatifid; Flowers not uniform, those of the centre abortive; the outer petals of the ray larger and radiant; Fruit hispid.

202. ANGELICA.-Lin.

Petals incurved; Umbels globose Seeds hemisphæric 3-winged; Calyæ 5-toothed; Corols uniform.

203. SISON .- Lin .- Hone-word.

Petals lanceolate, inflected; Umbel fewrayed; Seeds ovate, striate; Involucres about 4-leaved.

204. FERULA .- Lin .- FENNEL-GIANT.

Petals heart-shaped; Seeds flat, with 3-raised lines on both sides; Flowers uniform, all fertile; General Involucre deciduous.

205. LIGUSTICUM.-Lin.-LOVAGE.

Petals involute, entire; Involucre membranaceous; Calyx 5-toothed; Flowers uniform; Seeds 3-ribbed each side.

206. AMMI.—Lin.—BISHOP'S-WEED.

Involucres pinnatifid; Flowers uniform all fertile; Petals heart-shaped; Fruit smooth, striate.

207. SIUM.—Lin.—WATER-PARSNIP.

Involucres many-leaved; Flowers uniform all fertile; Petals heart-shaped; Fruit sub-ovate, striate.

208. SELINUM.-Lin.-MILK-PARSLET.

Involucre reflected; Flowers uniform all fertile; Petals heart-shaped; Fruit striated in the middle.

b. With a partial Involucre; without a general Involucre.

209. CHÆROPHYLLUM.—Lin.—MTRRHIS.
—Mich.—Cow-PARSLET.
Involucre reflected, concave, 5-8-leaved;

Flowers nearly uniform, some abortive; Petals inflected, heart-shaped; Fruit oblong, even.

210. CICUTA.—Lin.—WATER-HEMLOCK.— COW-BANE.

Involucre 3-5-leaved; fruit sub-ovate, grooved; Flowers uniform, all fertile.

- c. With a partial Involucre; but rarely a general Involucre.
- 211. SMYRNIUM.—Lin.—ALEXANDERS.

Flowers uniform, some abortive; Seeds kidney-form, angular-ribbed; Petals pointed, carinate, incurved.

212. THAPSIA .- Lin .- DEADLT-CARROT.

Flowers uniform, all fertile; Seeds with 4 membranaceous wings, notched; Ps-tals lanced, incurved.

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. . . S....Trigynia.

A.—Corols 5-cleft, superior.

213. VIBURNUM.—Lin.—Mealt-Tree.

Calyx 5-parted; Corol campanulate;

Berry 1-seeded.

214. SAMBUCUS .- Lin. - ELDER.

Calyx 5-parted; Corol rotate, concave; Berry 3-seeded.

B.—Corols 5-parted, inferior.

215. RHUS.—Lin.—SUMACH.—POISON-OAK.

Calyx 5-parted; Berry roundish, 1-celled; Seed 1, bony.

126. STAPHYLEA .- Lin .- BLADDER-NUT.

Calyx 5-parted, coloured; Capsules 3, inflated, united; Seeds 2, globular, with a scar.

217. SAROTHRA.—Lin.

Calyx 5-parted; Capsule 1-celled, 3-valved, many-seeded, coloured.

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. . . 4....TETRAGYNIA.

218. PARNASSIA.—Lin—GRASS OF PARNASSUS.

Calyx 5-parted; Corol 5-petalled; Nectories 5, heart-shaped, fringed with bristles ending in globular tips; Capsulo 4-valved; Seeds numerous.

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. . 5....Pentagynia.

219. ARALIA.-Lin.-PRICKLY-ASH, &c.

Calyx 5-toothed; Petals 5, reflected; Berry 5-celled, crowned; Cells1-seeded,

220. LINUM.—Lin.—FLAX.

Calyx 5-leaved; Corol funnel-form, 5-petalled; Capsule 5-valved; 10-celled; Seeds solitary.

221. DROSERA.—Lin.—SUN-DEW.

Calyx 5 cleft, Corol 5-petalled; Cafisule 1-celled, 3-5-valved at top; many-seeded.

222. STATICE.—Lin.—THRIFT.

Calyx entire, plaited; Corol 5-petalled; Seed 1, invested by the Calyx.

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. . . 6....Polyginia.

\$23. XANTHORIZA.—- Marshall.— Yellow-ROOT.

Calyx o; Petals 5, Nectaries 5, pedicelled; Capsules many, 1-seeded.

CLASS VI....HEXANDRIA.

000

Order 1....Monogynia.

 Λ —Flower with a Calyx and Corol, without a spathe.

224. TILLANDSIA.—Lin.—Long-moss.

Calyx 3-cleft, inferior; Corol campanulate, border 3-cleft; Capsule 1-celled, 3-valved; seeds many affixed to long hairs.

225. BURMANNIA.—Lin.

Calyx inferior, prismatic, 3-angled, coloured, bearing the petals, the mouth 3-cleft; Corol 3-petalled; Capsule 3-celled, 3-valved; Seeds numerous, minute.

226. TRADESCANTIA.—Lin.—SPIDER-

Calux inferior, 3-leaved; Corol 3-petalled; Filaments bearded; Capsule 3-celled, 3-valved, seeds few, angular.

227. BERBERIS.—Lin.—BARBERRY.

Calyx inferior, 6-leaved; Corol 6-petalled, with 2 glands at the base of each petal; Berry cylindric, 1-celled, 2-seeded.

228. CAULOPHYLLUM.—Michaux—LEON-TICE.—Lin.

Calyx inferior, 6-leaved; Corol 6-petalled; Druhe st ped, globose; Nut globose, horny, 1-seeded.

229. DIPHYLLEIA.—Michaux.

Calyx inferior, 3-leaved, deciduous; Corol 6-petalled; Berry 1-celled, 2-3-seeded.

230. PRINOS .- Lin .- WINTER-BERRY.

Calyx inferior, 6-cleft; Corol wheel-shaped, 6-cleft; Berry roundish, 6-celled, cells 1-seeded.

(CLEOME.—Class 15. Order 2.)

B.—Flowers with a Spathe or Glume, without a Calyx.

•231. PANCRATIUM.—Lin—SEA-DAFFODIL. Spathe 1-leaved, opening upon the side; Corol superior, 6-petalled; Nectary cup-like, bearing the petals & stamens; Stigma obtuse; Capsule 3-celled, 3-valved, many-seeded.

232. AMARYLLIS .- Lin. - ATAMASCO-LILT.

Spathe 1-leaved, opening upon the side; Corol superior, 6-petalled, nearly equal; Stamens unequal, declined, with 6 nectariferous scales at the base of the filaments; Stigma linear, recurved, 3-cleft; Cafisule 3-celled, 3-valved, many-seeded.

232. HYPOXIS.—Lin.—STAR-GRASS.

Glume 2-valved; Corol superior, 1-petalled, border 6-parted, permanent; Capsule oblongish, crowned with the permanent corol.

234. ALLIUM—Lin.—Оніон, Ес.

Shathe 2-velved, many-flowered; Corol inferior 6-petalled; Petals ovate sessile; Capsule short, 3-celled, 3-valved many-seeded.

235. PONTEDERIA.—Lin.

Spathe oblong, opening upon the side; Corol inferior, 2-lipped, lips 3-parted; Capsule fleshy, 3-celled, many-seeded.

C.—Flowers without Calyx, Spathe or Glume.

236. AGAVE.—Lin.—AMERICAN ALOE.

Corol superior, funnel-form, border, 6parted; Filaments longer than the corol; Capsule 3-celled, 3-valved, manyseeded.

237. ALETRIS .- Lin .- FALSE-ALOE.

Corol superior, funnel form, wrinkled, 6cleft; Stamina, inserted on the base of the segments; Capsule 3-celled, 3-valved, many-seeded.

238. YUCCA .- Lin. - ADAM'S NEEDLE.

Corol inferior, companulate, 6 paried, spreading; Style o; Stigma 3 furrowed; Capsule, oblong, 3-celled, 3 valved, many-seeded.

239. DRACÆNA-Lin.

Corol inferior, 6 petalled; Petals upright, cohering at their base; Filaments swelling in the middle; Berry of 3 cells; Seeds mostly solitary.

240. ERYTHRONIUM—Lin.—Dog's roots

Corol inferior, 6-petalled; Petals reflexed; Nectaries, 2 scars at the base of the three inner petals; Capsule globose, contracted at the bottom, many-seeded; Seeds ovate.

241. LILIUM.—Lin.—LILT.

Corol inferior, 6-petalled; Petals with a longitudinal groove from the middle to the base; Capsule with the valves connected by cancellate hairs, many-seeded.

242. PHALANGIUM.—Jussieu.—- Anthericum.—Lin.

Corolinferior, 6 petalled, spreading, permanent; Filaments filiform, smooth; Capsule ovate, 3-celled, 3-valved; many-seeded; Seeds angular.

243. CONVALLARIA.—Lin.—Solomon's

Corol inferior, 6-cleft; Stigma 3-sided; Berry globular, 3-celled, spotted before maturity; Cells 1-seeded.

(C. BIFOLIA has 4 stamens and a 4-cleft corol.)

244. UVULARIA.—Lin.

Corol inferior, 6-petalfed; with a cavity at the base of each petal; Filaments very short; Capsule triangular, 3-celled, acute, many-seeded.

245. STREPTOPUS.—Michaux—UVULARIA. —Lin.

Corol inferior, 6-petalled; Stigma very short; Berry sub-globose, smooth, 3-celled, many-seeded.

246. ORONTIUM.—Lin.—FLOATING-ARUM.

Spadix cylindric, covered with florets; Spathe o; Corol 6-petalled, naked; Style o; Follicle slender, 1-seeded, immersed in the spadix with the corol.

247. ACORUS.—Lin.—SWEET-FLAG.

Spadix cylindric, covered with florets; Spathe 0; Corol 6-petalled, naked; Style 0; Capsule triangular, 3-celled, many-seeded.

D.—Flowers without corol.

248. JUNCUS.-Lin.-RUSH.

Glume 2-valved; Calyx 6-leaved, permanent; Stigmas 3, villous; Capsule covered by the calyx, 3-valved, 1 or 3-celled, 3 or many-seeded.

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... 2....DIGYNIA.

249. NECTRIS.——Schreb.—CABONBA.—M

Calyx 6-parted, the 3 interior divisions smaller, obtuse; Corol o; Capsules 2, crowned by the styles, 1-celled, 1-2-seeded.

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. . . 3....TRIGYNIA.

250. MEDEOLA .- Lin .- INDIAN CUCUMBER.

Calyx o; Corol deeply 6-parted, the divisions revolute; Berry round, 3-grooved, 3-c l ed, 3-seeded.

\$51. MELANTHIUM.—Lin,—BLACK-FLORS

Polygamous. Calyx o; Corol 6-petalled, with 2 glands at the base of each petal; Stamens attached to the claws of the petals; Capsule sub-ovate, crowned by the styles, 3-celled, many-seeded.

252. VERATRUM.—Lin.—WHITE-HELLE-

Polygamous. Calyx o; Corol 6-petalled, without glands; Capsules 3, many-seeded.

253. HELONIAS.—Lin.

Calyx 0; Corol 6-petalled; Styles distinct; Capsule 3-celled, 3-horned, few-seeded.

254. NOLINEA .- Michaux.

Calyx 0; Corol 6-parted, spreading; Style very short; Stigmas recurved; Capsule 3-cornered, membranaceous, 3-celled; Seeds solitary.

255. SCHEUCHZERIA.—Lin.—Lzss-flowzring rush.

Calyx 6-parted; Corol o; Anthers linear; Stigmas sessile, lateral; Cafisules 3, superior, inflated, 1 or 2-seeded,

256. XEROPHYLLUM.—Michaux.—Helo-NIAS.—Lin.

Calyx 0; Corol 6-petalled, spreading; Stigmas revolute, somewhat united at their base; Cafisule sub-globose, 3-celled; cells 2-seeded.

257. ZIGADENUS .- Michaux.

Calyx o; Corol 6-petalled, spreading, with 2 glands above the base of each petal; Stamens inserted in contact with the germ; Capsule membranaceous, 3-celled, many-seeded.

258. TOFIELDIA.—Hudson.—Narthecium. Michaux.

Calyx 3-cleft; Corol 6-petalled; Capsules 3, superior, united at the base, many-seeded.

259. TRILLIUM.—Lin.—TRUE-LOVE OF CA-

Calyx 3-leaved, spreading; Corol 3-petalled; Berry superior, 3-celled, many-seeded.

260. TRIGLOCHIN.—Lin.—ARROW-GRASS.

Calyx 3-leaved; Corol 3-petalled, resembling the calyx; Stigmas 3 or 6, sessile, feathery; Capsules superior, opening at the base; Cells as many as stigmas, 1-seeded.

261. RUMEX.—Lin.—Dock.

Calyx 3-leaved; Corol 3-petalled, petals converging, permanent, enclosing one 3-sided seed.

262. SABAL.—Adans.—Chamaerops.—Michaux.—Cortpha.—Jacq.—Fan-palmets'o.

Spathes partial; Calyx 3-parted; Corol 3-petalled; Filaments free; thick,

ened at the base; Germs 3, coadunate; Berries 3, 1-seeded, (2 frequently abortive.)

263. CHAMAEROPS .- Lin .- PALMETTO.

Polygamous. Spathe compressed; Spadix branchy; Calyx 3-cleft; Corol 3petalled; Filaments somewhat adhering at the base; Drupes 3, 1-celled, 1seeded.

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. . . 4....HEXAGYNIA:

264. WENDLANDIA. - Willd. -- ANDROPHY-

Calyx 6-leaved; Corol 6-petalled; Capsules 6, 1-celled, 1-seeded.

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. . . 5....Polygynia.

265, ALISMA.—Lin.—WATER-PLANTAIN.

Calyx 3-leaved; Petals 3; Capsules numerous, 1-seeded.

ELASS VII....HEPTANDRIA

000

Order 1 Monogynia.

266. TRIENTALIS Lin CHICK-WEED WINTER-GREEN.

Calyx 7-leaved; Corol 7-parted, equal; Berry 1-celled, juiceless.

267. AESCULUS.—Lin.—PAVIA.—Lam.——
HORSE CHESNUT.

Calyx 5-toothed; Corol 4-petalled, unequal, conniving; Capsule 3-celled, 3-valved, cells 2-seeded.

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. . . 2....TETRAGYNIA.

268. SAURURUS—Lin--MATTUSCHIA—Gmelin.—LIZARD'S TAIL.

Flowers in an ament; Calyx 1-leaved, lateral; Corol o; Germs 4; Berries 4, orate, 1-seeded.

CLASS VIII....OCTANDRIA

000

Order 1 Monogynia.

A.—Flowers superior.

269. VACCINIUM.—Lin.—WHORTLE-BERRY.

Calyx 4-toothed; Corol bell-shaped, 4 or 5 cleft, the divisions reflected; Filaments inserted on the germ; Berry round, 4 or 5 celled, many-seeded.

(Many species are decandrous.)

270. OXYCOCCUS.—Pers.—Vaccinium.— Lin.—Cranberry.

Calyx 4-cleft; Corol 4-parted, the divisions narrow, revolute; Filaments conniving; Berry ovate, many-seeded.

271. GAURA.—Lin.—VIRGINIAN LOOSE-STRIFE.

Calyx 4-cleft, tubular; Corol 4-petalled, petals inclining towards the upper side; Nut 4-angled, 1-seeded.

272. EPILOBIUM.—Lin.—WILLOW-HERB.

Calyx 4-cleft, tubular; Corol 4-petalled; Capsule oblong. 4-celled, 4-valved, many-seeded; Seeds feathered.

273. OENOTHERA.—Lin—Tree-primrosz.

Calyx 4-cleft, tubular; Corol 4-petalled; Anthers linear; Capsule 4-celled, 4-valved, many-seeded; Seeds naked.

B.—Flowers inferior.

274. MENZIESIA.—Smith.

Calyx 4-5-cleft; Corol 1-petalled inflated; filaments inserted into the receptacle; Capsule 4-5-celled, the partitions from the inflexed margins of the valves.

275. RHEXIA.—Lin.

Calyx 4-5-cleft; Corol 4-petalled, inserted on the calyx; Anthers declining; Capsule 4 celled, many-seeded, within the belly of the calyx.

276. AMYRIS.—Lin.—Gum elemi tree, &c.

Calyx 4-toothed; Corol 4-petalled, spreading; Stigma somewhat headed, 4-sided; Berry drupaceous, 1-seeded.

277. ACER.—Lin.—Maple.

Calyx 5-cleft; Corol 5-petalled; Capsules (samaras) 2, united at the base, 1-seeded, winged.

278. JEFFERSONIA.—Barton.—Podophtl-Lum.—Lin.

Calyx 5-leaved, coloured, deciduous; Corolla 8-petalled; Cafisule subovate, 1-celled, many-seeded.

279. DIRCA.—Lin.—LEATHER-WOOD.

Calyx resembling a corol, border obscure, unequal; Corol o; stamens longer than the tube of the calyx; Berry 1-seeded.

. . 4....TETRAGYNIA.

280. SAPINDUS .- Lin .- SOAP-BERRY.

Calyx 4-leaved; Corol 4-petalled; Capsules 3, united, fleshy.

281. CARDIOSPERMUM.—Lin.—HEART-SEED.

Calyx 4-leaved; Petals 4, Nectary 4-leaved, unequal; Capsules 3, united, inflated.

282. POLYGONUM.—Lin.—Knot-grass.— Виск-wheat, &c.

Calyx 5-parted, coloured; Corolo; Seed 1, superior, angular, covered with the calyx. (Stamens and fistils vary in number.)

CLASS IX....ENNEANDRIA.

000

Order 1....Monogynia.

283 LAURUS .- Lin .- SASSAFRAS, &c.

Calyx o; Corol 6-parted, resembling a calyx; Nectaries three 2-bristled glands; Drupe 1-seeded.

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. . 2....TRIGYNIA.

384. PLEEA.-Michaux.

Calyx o; Corol 6-parted, spreading; Capsule superior, nearly round, slightly 3-angular, many-seeded.

285. ERIOGONUM.—Michaux.—Woolly

Calyx inferior, 6 parted, coloured, permanent; Corol o; Capsule triangular, membranous; Seed 1, triangular,

CLASS X....DECANDRIA.

000

Order 1 Monogynia.

A.—Flowers many-petalled, irregular.

286. PODALYRIA.—Lin,—WILD INDIGO.

Calyx 5-cleft, somewhat 2-lipped; Co-rol papilionaceous; Legume inflated, many-seeded.

287. CERCIS .- Lin. - JUDAS TREE.

Calyx 5-toothed; Corol papilionaceous; Nectary a style-shaped gland; Legume oblong, 1-celled, few-seeded.

288. CÆSALPINIA.—Lin.—BRASILETTO.

Calyx 5-cleft, lower division largest; Corol 5-petalled, nearly equal; Legume compressed.

289. CASSIA .- Lin .- WILD SENNA.

Calyx 5-leaved; Corol 5-petalled, unequal; Anthers beaked; Legume flat, many-seeded.

290. RHODORA.—L'Herit.—PANTHEON.—
(Cutler.)

Calyx 5-toothed; Corol 2-petalled, unequal, converging, the upper petal deeply 2-cieft; Capsule 5-celled, many-seeded.

- B .- Flowers 5-petalled, regular.
- 291. CLETHRA—Lin—SweetPepper-bush.

 Calyx 5-parted; Pistil with 3 stigmas;

 Capsule 3-celled, many-seeded.
- 292. PYROLA.—Lin.—WINTER-GREEN.

 Caly x 5-parted; Anthers with 2 pores;

 Cafisule 5-celled, many-seeded.
- 293. LEDUM.—Lin.—MARSH ROSE-MART.

 Calyx 5-trothed; Corol 5...parted, flat;
 Capsule 5-celled, many seeded.
- 294. DIONAFA.—Lin—Venus' flr-Trap.

 Calyx 5-leaved; Stign a fringed; Capsaule 1-celled; Seeds tumerous, affixed to the base of the capsule.
- 295. JUSSIEUA.—Lin.

 Calvx 5-cleft; Capsule inferior, 5-celled, opening at the angles, many-seeded.

C -Flowers 1-petalled.

- 296. ANDROMEDA.—Lin.—FED-BUD, &c.

 Calyx 5-parted; Corol campanulate, ovate or roundish, with a 5-cleft mouth;

 Capsule 5-celled, many-seeded.
- 297. RHODODENDRUM.—Lin—Mountain

 Laurel.

 Calyx 5-parte; Corol funnel-form;

 Stamens declining; Capsule 5-celled.
- 298. KALMIA.—Lin—Ivr. DWARF LAUREL.

 Calyx 5-parted; Corols Sver-form, with
 10 cavities for the anthers, exteriorly

forming 10 protuberances; Capsule 5-celled.

299. EPIGAEA.—Lin.—Trailing areutus.

Calyx double, outer 3-leaved, inner 5leaved; Capsule 5-celled, 5-valved, many-seeded.

300. GAULTHERIA.—Lin.—Mountaintea.—Ginger-berry.

Calyx double, cuter 2-leaved, inner 5-cleft; Cansule 5-celled, invested with the inner, berried calyx.

301. ARBUTUS.—Lin.—BEAR-BERRY.

Cal :x 5-parted; Corol ovate, pellucid at the base; Be ry 5-celled.

302. STYRAX.—Lin.—Storax-tree.

Calyx 5-toothed, inferior; Corol funnelform, 5-cleft; Druhe 2-seeded.

D .- Flowers incomplete.

303. MONOTROPA.—Lin.—Bird's NEST.

Calyxo; Corol 10-petalled, 5 outer. gibbous at the base; Capsule 5-valved.

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... 2....DIGYNIA.

304. HYDRANGEA.—Lin.

Calyx 5-toothed, superior; Corol 5-petalled; Capsule 2-celled, 2-beaked, opening transversely, many-seeded.

(The Hydrangea of the gardens forms a separate genus called HORTENSIA.)

305. SAXIFRAGA .- Lin. - SAXIFRAGE.

Calyx 5-parted; Corol 5-petalled; Capsule 1-celled, 2-beaked, opening between the beaks, many-seeded.

306. TIARELLA.-Lin.

Calyx bearing the corol, 5-cleft; Corol 5-petalled, petals entire; Capsule 2-valved, (1 valve larger,) many-seeded.

307. MITELLA.—Lin.

Calyx bearing the corol; Corol 5-petalled, petals pinnatifid; Capsule 2-valved (valves equal,) many-seeded.

308. CHRYSOSPLENIUM.—Lin.—Golden Saxifrage.

Calyx 4 or 5-cleft, coloured; Corolo; Capsule 2-beaked, half inferior, 1-celled, half 2-valved, many-seeded.

309. DIANTHUS.—Lin.—PINK.

Calyx cylindrical, 1-leafed with scales at the base; Petals 5, with claws; Cansule superior, cylindrical, 1-celled many-seeded.

310. SAPONARIA.—Lin.—SOAP-WORT.

Calyx tubular, 5-toothed at top, without scales; Petals 5, with claws; Capsule oblong, 1-celled, many-seeded.

. . . 3....Trigynia.

311. ARENARIA.—Lin.—SAND-WORT.

Calyx 5-leaved; Petals 5, entire, spreading; Capsule superior, 1-celled, many-seeded.

\$12. STELLARIA.—Lin.—CHICK-WEED.

Calyx 5-leaved; Petals 5, deeply cloven, spreading; Capsule superior, 1-celled, many-seeded, 6-toothed at top.

313. SILENE .- Lin .- CATCH-FLT.

Calyx 1-leaved, swelling; Petals 5, with claws; Capsule superior, imperfectly 3-celled, bursting at top, many-seeded.

314. BANISTERIA.—Lin.

Calyx 5-parted, with 2 pores at the base of each division; Petals 5, with claws; Filaments cohering at the base; Capsules 3, winged; Seeds solitary.

315. BRUNNICHIA.—Gært.

Calyx swelling, 5-cleft; Corol o; Cafisule 3-sided, 1-celled, many-seeded.

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. . 4....TETRAGYNIA.

316. MICROPETALON.—Persoon.—Sper-GULASTRUM.—Michaux. Calyx 5-leaved; Petals very small, en-

Calyx 5-leaved; Petals very small, entire, or o; Capsule ovate, 4-valved.

. . . 5....PENTAGYNIA.

317. SEDUM .- Lin .- STONE-CROP.

Calyx 5-cleft; Petals 5; Capsules 5, superior, each with a nectariferous scale, many-seeded.

318. PENTHORUM.—Lin.—VIRGINIAN OR-

Calyx 5-10-cleft; Petals 5, or 0; Capsule 5-lobed, 5-celled, many-seeded.

319. OXALIS .- Lin .- WOOD SORREL.

Calyx 5-parted; Petals 5, cohering by claws; Capsule superior, 5-celled, 5-cornered, bursting at the angles; Seeds with an elastic coat.

320. SPERGULA .- Lin .- CORN-SPURRET.

Calyx 5-leaved; Petals 5, undivided; Capsule superior, ovate 1-celled, 5-valved.

321. AGROSTEMMA.—Lin.—GITHAGO.— Desf.—Corn-Cockle.

Calyx tubulous, angular, 5-cleft at top; Petals 5, with claws, border obtuse, entire; Capsule 1-celled, 5-valved at top, many-seeded.

322. CERASTIUM.—Lin.—Mouse-ear chick

Calyx 5-leaved; Petals 5. 2-cleft; Capsule oblong or globular, 1-celled, 5toothed at top, many-seeded. ...55...

. . 6....DECAGYNIA.

323. PHYTOLACCA .- Lin .- POKE.

Calyx o; Corol 5-petalled, (calyx-like)

Berry above, 10-celled, 10-seeded.

CLASS XI....DODECANDRIA

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Order 1....Monogynia.

324. ASARUM.—Lin.—ASARABACCA.

Calyx 3-cleft, superior; Corol o; Stigma 6-cleft; Capsule coriaceous, 6-celled, crowned with the calyx.

325. HALESIA.—Lin,

Calyx 4-toothed, superior; Corol 4-cleft; Pericarfi 4-seeded, 4 angled.

326. HUDSONIA.—Lin.

Calyx 3-leaved, inferior; Corol 5-petalled; Stamens 15; Capsule 1-celled, 3-valved, 3-seeded.

327. PORTULACA.—Lin.—Purslane.

Calyx 2-cleft, inferior; Corol 5 petalled; Capsule 1-celled, opening transversely.

328. LYTHRUM.—Lin.— WILLOW-HERB.

Calyx 12 cleft, inferior; Corol 6-petalled; Capsule 2-celled, many-seeded.

329. CUPHEA.—Jacq :—LTTHRUM.—Lin.

Calyx 5.6 toothed, unequal; Corol 5-6petailed, unequal, inserted into the Calyx; Capsule 1-celled covered by the Calyx; Seeds 5-10, affixed to a triquetrous receptacle.

329. DECUMARIA.—Lin.—Forsythia.—

Call x urceolate, 8-10 toothed, superior; Corol 8 10-petalled; atamens 16-27; Capsule of about 10 cells; Seeds numerous, imbricated, chaffy.

330. BEJARIA.—Lin.

Calyx 7-cleft, inferior; Petals 7; Stamens 14; Berry juiceless, 7 cornered, naveled, 7-celled, many-second

331. DIOSPYROS.—Lin.—Persimmon.

Calyx 4-cleft; Corol urceolate, 4-cleft; Ber. y large, globose, 8-seeded; male flowers on a separate plant.

332. TRIUMFETTA .- Lin.

Calyx 5-leaved; Corol 5-petalled; Capralled sule bristly, bursting into 4.

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. . . 2....DIGYNIA.

333. AGRIMONIA.—Lin.—AGRIMONY.

Calyx 5-toothed; invested with an outer one; Petals 5, inserted into the clyx; Seeds 2, in the bottom of the calyx.

. . . 3....'TRIGYNIA.

334. EUPHORBIA .- Lin. - Spurge.

Calyx inflated; Petals or Nectaries 4 or 5, standing on the calyx; Capsule 5-lobed, pedicelled.

CLASS XII....ICOSANDRIA.

000

Order 1....Monogynia.

335. PHILADELPHUS .- Lin. - STRINGA.

Calyx 4-5-parted, superior; Corol 4-5-petalled; Capsule 4-5-celled, many-seeded.

336. PRUNUS.—Lin.—Plum, cherr, &c. Calyx 5-cleft, inferior; Corol 5-petalled; Drupe with slightly prominent seams.

337. CACTUS .- Lin .- PRICKLY PEAR.

Calyx superior, imbricate with scales; Petals numerous, somewhat united at their base, the interior ones largest; Stigma many-cleft; Berry 1-celled, many-seeded.

338. CHRYSOBALANUS.—Lin.

Calyx 5-cleft; Corol 5-petalled; Style lateral; Drupe with a 5-grooved, 5-valved, 1-seeded nut.

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. . . 2....Digynia.

CRATAEGUS .- See Mespilus.

. . . 3....Pentagynia.

339. MESPILUS .- Lin .- WHITE THORN, &c.

Calyx 5-cleft; Corol 5-petalled; Styles 2-5; Drupe inferior, with 2-5, 2-seeded nuts.

340. PYRUS .- Lin .- CRAB-TREE, &c.

Calyx 5-cleft, superior; Corol 5-petalladed; Pome 5-celled, cells 2-seeded.

341. SPIRÆA.-Lin.-MEADOW-SWEET.

Calyx 5 cleft, inferior; Corol 5-petalled; Capsule 2-valved, many-seeded.

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. . . 4....Polygynia.

342. ROSA.—Lin.—Ross.

Calyx urn-shaped, fleshy, contracted at the orifice, terminating in 5 divisions; Petals 5; Seeds numerous, bristly, fixed to the inside of the calyx.

343. RUBUS.—Lin.—Black-berry, &c.

Caly x 5-cleft; Corol 5-petalled; Pistils numerous; Berry composed of several succeient, 1-seeded, granulations.

344. DALIBARDA.--Lin.-- Michaux.-- Rv-BUS.--Lin,

Calyx 5-parted; Corol 5-petalled; Pistils 5 to 8; Berry composed of several dry, 1-seeded granulations.

345. FRAGARIA.-Lin.-STRAWBERRY.

Calyx10-cleft,5 alternate divisions smaller; Corol 5-petalled; Seeds naked, fixed to a pulpy, berried, receptacle.

346. POTENTILLA .- Lin .- CINQUE FOIL.

Calyx 10-cleft, 5 alternate divisions smaller; Corol 5-petalled; Seeds naked, wrinkled, awnless, fixed to a dry receptacle.

347 GEUM.—Lin.—AVENS.

Calyx10-cleft, 5 alternate divisions smaller; Corol 5-petalled; Seeds with a bent awn; Receptacle columnar, villous.

348. COMARUM.—Lin.—Marsh Cinque-

Calyx10-cleft,5 alternate divisions smaller; Petals 5, smaller than the calyx; Seeds naked, even-surfaced, upon an ovate, spongy, villous, receptacle.

349. CALYCANTHUS Lin. CAROLINA

Calyx 1-leafed, pitcher-shaped, with colored segments; Petals numerous, resembling the segments of the calyx; Seeds many, tailed, in the calyx become succulent.

CLASS XIII....POLYANDRIA.

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Order 1 Monogynia.

- 350. CHELIDONIUM.—Lin.—Celandine.

 Calyx 2-leaved, Corol 4-petalled; Silique 1-celled; Seeds crested.
- 351. ACT ÆA.—Lin.—RATTLE-WEED.

 Calyx 4-leaved; Corol 4-petalled; Berry 1-celled; Seeds flat, in a double row.
- 352. ASCYRUM.—Lin.—St. Peter's wort.

 Calyx 4-leaved, 2 exterior leaflets very small; Corol 4-petalled; Filaments in 4 parcels; Capsule oblong, pointed, 2-valved, included in the larger leaves of the calyx, many-seeded.
- 353. CISTUS.—- Lin.—- HELIANTHEMUM.——
 Mich.—Rock-rose.

Calyx 5-leaved, 2 leaves smaller; Corol 5-petalled; Capsule 3-valved, opening at the top, many-seeded.

354. SARRACENIA.—Lin.——SIDE-SADDLE FLOWER.

Calyx double, lower 3-leaved, upper 5-leaved; Corol 5-petalled; Stigma shield-like, covering the stamens; Capsule 5-celled, many-seeded.

355. TILIA.—Lin —LIME-TREE.

Calyx 5-parted; Corol 5-petalled; Capsaule 5-celled, coriaceous, opening at the base; Seeds solitary. (The American species have a scale at the base of each fietal.)

356. HOPEA.—Lin. - STMPLOCOS. - Willd.

Calyx 5 cleft above; Corol 5-petalled; Stamens in 5 parcels; Drupe with a 3-celled nut.

357. SÁNGUINARIA.—Lin.—Puccoon.

Calyx 2-leaved; Corol many-petalled, (about 8); Capsule 2-valved, many-seeded.

358. PODOPHYLLUM.—Lin.—MAY-APPLE.

Calyx 3-leaved; Corol many-petalled, (bout 9); Berry 1-celled, crowned with the stigma, many seeded.

359. NYMPHÆA.—Lin.—WATER-LILT.

Calyx 4-5-leaved, larger than the petals; Corol many-petalled, (about 15); Berry many-celled, many-seeded.

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, . . 2....Digynia.

360. FOTHERGILLA.-Lin.

Calyx entire, the margin slightly crenated; Corol o; Germ cloven; Capsule 2-celled, 1-seeded.

- . . 3....TRIGYNIA.

361. HYPERICUM.—Lin.—St. John's wort.

Calyx 5-parted; Corol 5-petalled; Filaments united at the base in 5 or 3 parcels; Styles 3, sometimes 2 or 5; Capsule roundish, with as many cells as styles, many-seeded.

362. DELPHINIUM.—Lin.—LARK-SPUR.

Calyxo; Corol 5-petalled, unequal; Nectary 2-cleft, horned behind; Cafisules
3, 1-valved, many-seeded.

363. ACONITUM.—Lin.—Monk's Rood.

Calyx 0; Co ol 5-petalled, unequal;

Nectaries 2, peduncled, recurved, Capesules 3, 1-valved, many-seeded.

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· · · 4....PENTAGYNIA.

364. AQUILEGIA.—Lin.—COLUMBINE.

Calyxo; Petals 5; Nectaries 5, ending beneath in a horn; Capsules 5, distinct,

1. valved, many-seeded.

365. CIMICIFUGA.—Lin.—Bug-Bane.

Calyx 4-leaved; Petals 4, urceolate,

cartilaginous; Capsules oblong, aping with a lateral suture, many-seeded.—
(Varies much in the number of the caty, corot and pistils,)

. . . 5....Polygynia,

366. HYDRAS IIS.—Lin.—Warnera.—Mill.
—Yellow-root.—

Calyx o; Corol 3-petalled; Berry composed of 1-seeded granulatins.

367. CLEMATIS .- Lin. - VIRGIN'S BOWER.

Culyx 0; Petals 4, rarely 5 or 6; Seeds with long awns; Receptacle capitate. (Some species are dioccious.)

- 368. THALICTRUM.—Lin.—MEADOW-RUE.

 Calyx o; Petals 4-5; Seeds numerous,
 without awns; terminated by a bent
 point. (Some species are dioecious.)
- 369. HELLEBORUS.—Lin.—HELLEBORE.

 Calyx 0; Petals 5; Nectaries numerous,
 2-tipped; Capsules 3-6, compressed,
 many-seeded.
- 870. CALTHA.—Lin.—Marsit marr-gold.

 Calyx 0; Petals 5; Nectaries 0; Capsules numerous, many-seeded.
- 371. ANEMONE.—Lin.

Caly x 0; Petals 5-9; Seeds numerous, pointed, crowned with the style; Receptacle globular or oblong.

372. HYDROPELTIS .- Michaux.

Calyx o; Corol 6-p talled; Capsulce numerous, 1-celled, 2-seeded.

371. ANNONA.—Lin.—ORCHIDQCARPUM.—
Michaux.—PAPAW-TREE.

Calyx 3-leaved, small; Corol 6-petalled, 3 interior petals smaller; Berries several, some of them frequently abortive, somewhat kidney-form, many-seeded.

\$72. LIRIODENDRON.—Lin—Tulip-tree.

Calyx 3-leaved, deciduous, surrounded by a 2-leaved bracte; Corol 6-petalled, campanulate; Seeds numerous, ending in a lanced scale, and imbricated into a strobile.

373. MAGNOLIA.—Lin.

Calyx 3-leaved, deciduous; Corol 9-petalled; Capsules numerous, imbricated into a strobile, 2-valved, 1-2-seeded; Seeds berried, pendulous.

374. CYAMUS—Salisb—Nelumbium—Willd.

Calyx5-leaved; Petals5, or more; Seeds half immersed in a cellular receptacle, each crowned with a style.

375. RANUNCULUS .- Lin .- CROW-FOOT.

Calyx 5-leaved; Petals 5, with claws, with a melliferous pore or scale on the inside of each claw; Seeds numerous, annexed to the receptacle.

\$76. ILLICIUM.—Lin.—STAR-ANIS.

Calux 6-leaved; Petals 27, in 3 ranks, decreasing inwardly; Capsules many, disposed in a circle, 2-valved, 1-seeded.

CLASS XIV....DIDYNAMIA.

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Order 1....GYMNOSPERMIA....(Seeds naked.)

A .- Caly xes nearly equally 5-parted.

Brole. Bugle.

Corol with the upper lip very small, 2parted, shorter than the stamens, under lip large, 3-cleft, middle division notched.

378. TEUCRIUM .- Lin .- Wood-sage.

Corol with the upper lip deeply 2-parted, with the stamens in the division; under lip 3-cleft, the middle division rounded; Stamens and Pistil incurved.

379. ISANTHUS .- Michaux.

Corol nearly regular, with a 5-parted border; the divisions rounded; Stamens nearly equal, rather shorter than the corol.

(Genus allied to the Asperifolia.)

\$30. VERBENA.—Lin.—VERVAIN.

Corol funnel-form, with a curved tube, border half 5-cleft, nearly equal; Caly w with 1-toothed truncate.

381. LAMIUM.—Lin.—DEAD-NETTLE.

Corol with the upper entire, vaulted, concealing the stamens, under lip inversely heart-shaped, a bristly tooth on each side the throat.

382. PYCNANTHEMUM.—Michaux.—BRA-

Eractes numerous, forming an involucre under the heads; Calyx tubular, striated; Corol with the upper lip nearly entire, lower lip 3-cleft; Stamens nearly equal.

383. NEPETA .- Lin .- CAT-MINT.

Corol with the under lip crenate, the margin of the threat reflected, the upper lip erect, notched; Stamens approximated.

384. HYSSOPUS.—Lin.—Hrssop.

Corol grinning, the upper lip flat, short, notched, the under lip 3-parted, somewhat crenate, the middle division inverse heart-shaped; Filaments distant, straight.

385. MENTHA.—Lin.—MINT.

Corol nearly equal, 4 cleft, the broader division notched; . Filaments distant, straight.

386. STACHYS.—Lin.—Base-horehound.

Corol with the upper lip vaulted, the lower-lip reflected on the sides, the middle division very large, notched; Stamens deflowered, reflected to the sides.

387. HYPTIS.—Willd.

Corol grinning, with the upper lip 2-cleft, the lower lip 3-parted, the middle division concave; Filaments decined.

388. LEONURUS.—Lin.—Mother-wort.

Corol with the upper lip erect, entire, flat, the lower lip nearly equally 3 parted, the middle division entire.

389. MARRUBIUM.-Lin.-HORE-HOUND.

Corol with the upper lip 2-cleft, linear, straight; under lip 3-lobed, the middle lobe larger, notched; Culyx salverform, rigid, 10 striated, 10-toothed, (sometimes 5-toothed.)

\$90. CUNILA .- Lin .- PENNY-ROYAL.

Corol grinning, the upper lip erect, flat, notched, under lip 3-cleft, the middle division notched, two of the stamens often barren.

B .- Calyxes 2-lipped.

891. MELISSA.—Lin.—BALM.

Corol with the upper lip somewhat vaulted, 2-cleft; under lip 3-lobed, the middle lobe inverse-hearted; Calyx dry, the upper lip flattish, 3-toothed, under lip 2-cleft.

392: TRICHOSTEMA-Lin-HAIR-STAMEN.

Corol with the upper lip compressed, falcate, under lip 3-parted, the middle division small, oblong; Filaments very long! incurved; Calyx with the upper lip 3-cleft, twice as large as the 2-parted lower lip.

393. DRACOCEPHALUM.—Lin—DRACON'S

Corol with the throat inflate-dilated, the upper lip concave, the under lip 3 cleft, the middle division roundish, notched.

394. SCUTELLARIA.—Lin.—SKULL CAP.

Calyx with the mouth entire, closed after the florescence with an orbicular lid; Corol with the upper lip concave, 3-cleft; under lip broader, notched tube short, bent backward.

395. THYMUS.—Lin.—THYME.

Calyx with the throat closed with hairs, uper lip broader, flat, 3-toothed, under lip 2-bristled; Co ol with the upper lip shorter, flat, notched, under lip longer, broader, 3-cleft, the middle division largest.

396. ORIGANUM.—Lin—WILD-MARGORAM.

Flowers forming a 4-sided, spike-like cone! furnished with ovate, colored bractes; Corol with the upper liperect, flat, notched, under lip nearly equally 3-cleft.

397. CLINOPODIUM.—Lin.—FIELD-BASIL.

Bractes numercus, bristly, forming an involucre under the whorl or head! Callyx with the upper lip wider, 3-cleft,

lower lip 2-parted; Corol with the upper ip concave, notched, lower lip 3cleft, middle division wider-notched.

398. PRUNELLA .- Lin .- SELF-HEAL.

Filaments 2-forked at top! Calyx with the upper lip flat, truncate, 3-toothed, the under lip narrower, 2-parted; Corol with the upper lip concave, entire, the under lip 3-cleft, the middle division larger, notched, sawed.

(P. vulgaris has large heart-shaped bractes.)

399. PRASIUM.—Lin. —SHRUBBY HEDGE-NETTLE,

Seeds berried! Calyx with the upper lip half 3-cleft, the under lip smaller, 2-parted; Corol with the upper lip ovate, concave, the under lip broader, 3-cleft, reflected, the middle division larger.

400. PHRYMA.—Lin.

Seed single! Calyx cylindric, the upper lip longer, 3 cleft, the under lip 2-toothed, Corol with the upper lip ovate, notched, the under lip larger, expanding, 3-cleft, the middle division longer.

vered.

a. Calyx & 2-cleft.

401. OBOLARIA. Lin. PENNY- WORT.

Corol 4 cleit, campanulate; Stamens from the divisions of the corol; Capsule 1-celled, 2-valved, many-seeded.

b. Calyxes 4-cleft.

402. OROBANCHE. - Lin. - BROOM RAPE.

Corol 4 5 cleft, grinning; Capsule 1-celied, 2-valved, many-seeded; Gland under the base of the germ.

(The calyx varies, being in some species entire, in others, 2, 4 or 5-parted.)

403. BARTSIA .- Lin .- PAINTED-CUP.

Calyx 2-lobed, notched, colored; Corol colored less than the calyx itself, the upper lip longer; Capsule 2-celled.

404. RHINANTHUS.—Lin—YELLOW COCK'S.

Calyx inflated, compressed; Corol grinning, the upper lip helmet form, notched, narrower, the under lip 3 parted, expanded; Capsule 2-celled, obtuse, compressed, many-seeded.

405. EUPHRASIA.—Lin.—Ere BRIGHT.

Calyx cylindric; Corol grinning, the upper lip concave, notched, the under lip 3-parted, equal; Inferior Anthers thorny on one lobe at the base; Cansule 2-celled, ovate-oblong, many-seeded.

406. MELAMPYRUM.—Lin.—Cow-WHEAT.

Caly x tubular; Corol grinning, the upper lip helmet form, compressed, notched, the margin folded back; the lower equally 3-cleft; Capsule 2-celled, 2-valved, gaping on one side; Seeds 2, gibbous.

407. SCHWALBEA.-Lin.

Calyx 4-cleft, the upper division very short, the lateral ones longer, the lowest larger, notched; Corol grinning, the upper lip concave, very entire, the lower lip equally 3-cleft; Capsule 2-celled, many-seeded.

c. Calyxes 5-cleft.

409. LINDERNIA.-Lin.

Calyx 5-parted; Corol grinning, the upper lip very short, lower lip 3-cleft; the 2 inferior Stamens with a terminal tooth and sub-lateral anther; Capsule ovals, 1-celled, 2-valved, many-seeded.

410. MONIERA.—Michaux.

Calyx with 2 bractes; Corol nearly equal, 5-cleft; Stamens fertile; Capsule with the partition parallel to the valves.

411. SCROPHULARIA.—Lin.—FIG-WORT.

Calyx 5-cleft; Corol sub-globose, the upper lip 2-parted, the lower lip 3-parted, the middle division reflected; Capsule 2-celled, 2-valved, gaping at top, many-seeded.

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412. BIGNONIA .- Lin .- TRUMPET FLOWER.

Calyx 5-cleft, cup-form; Corol with the throat campanulate, ventricose beneath, the border 5-parted, unequal; Silique 2-celled, 2-valved; Seeds numerous, imbricated, membrane-winged.

413. RUELLIA.-Lin.

Calyx 5-parted, the divisions linear; Corol somewhat campanulate, the border 5-cleft, nearly equal; Stamens approximated by pairs; Capsule 2-celled, 2valved, bursting with elastic teeth, fewseeded.

414. BUCHNERA.—Lin.

Calyx obscurely 5-toothed; Corol tubular, the border 5-cleft, the superior divisions very short, reflected, the inferior ones hearted; Capsule 2-celled, gaping two ways, many-seeded.

415, ANTIRRHINUM .- Lin -- SNAP-DRAGON.

Calyx 5-leaved, 5-parted; Corol grinning, the base prominent downwards, the throat closed with the 2-parted convex palate; Capsule 2-celled, many-seeded.

416. GERARDIA.—Lin.

Calyx 5-cleft; Corol with the border 5-parted, unequal, the divisions rounded, or inverse-hearted; Capsule 2-celled, 2-valved, gaping at the base.

417. PEDICULARIS.—Lin.

Calyx ventricose, the mouth 5-cleft; Corol grinning, the upper lip helmet-shaped, notched, narrow, the under lip flat, 3-cleft, the middle division narrower; Capsule mucronate, oblique, 2-celled; Seeds numerous, coated.

418. MIMULUS .- Lin .- MONKET-FLOWER.

Calyx prismatic, 5-angled, 5-plaited, 5-toothed; Corol grinning, the upper lip 2-cleft, reflected on the sides, under lip 3-cleft, with a 2-cleft convex palate; Capsule oval, 2-celled, many-seeded.

419. CHELONE.—Lin.—SHELL-FLOWER.

Calyx 5-cleft; Corol ventricose, grinning, the upper lip obtuse, notched, the under lip slightly 3-cleft; Rudiment of a 5th, smooth filament between the superior stamens; Capsule ovate, 2-celled many-seeded.

420. PENTSTEMON .- Ait - CHELONE - Lin.

Calyx 5-cleft; Corol ventricose, 2-lipped; Rudiment of a 5th, bearded filament between the superior pair of stamens; Capsule 2-celled many-seeded.

421. CAPRARIA.—Lin.

Calyx 5-parted; Corol campanulate, 5cleft, the divisions acute, the two superior ones more erect; Capsule 2-celled, 2-valved, many-seeded.

422. MARTYNIA.—Lin.

Calyx 5-cleft; Corol nearly campanulate, the border unequally 5-cleft; Rudiment of a 5th stamen; Capsule woody, barky, the beak hooked, 4-celled, 2-valved, many-seeded.

CLASS XV....TETRADYNAMIA.

000

Order 1....SILICULOSA.

(Fruit silicled, that is, roundish, furnished with a style often the length of the silicle.)

A.—Silicle entire, (not notched at the end.)

423. DRABA.—Lin.—WHITLOW-GRASS.

Caly x 4-leaved; Corol 4-petalled; Style o; Silicle entire, oval-oblong, 2-celled, many-seeded, the valves slightly compressed.

424. BUNIAS.—Lin.—CAKILE.—Willd.

Calyx 4-leaved; Corol 4-petalled; Silicle deciduous, 4-sided, with unequal, acute angles, not opening.

B .- Silicle notched at the end.

425. ALYSSUM.—Lin.—MAD-WORT.

Calyx 4-leaved, converging; Corol 4petalled; Filaments of the two shortest stamens, notched at their base; Silicle orbicular, compressed, 2-celled, fewspeded.

426. LEPIDIUM .- Lin .- PEPPER-WORT.

Calyx 4-leaved, spreading; Corol 4-petalled; Silicle heart-shaped, many-seeded, with the valves keeled, contrary to the partition.

000

. . . 2....SILIQUOSA.

(Fruit siliqued, that is, very long, with a style scarcely visible.)

A.—Calyx closed with leaflets longitudinally converging.

427. ARABIS .- Lin. FALSE TOWER MUS-

Calyx 4-leaved, 2 leastets larger, gibbous at base; Corol 4-petalled; Glands 4, each within the leastets of the calyx, like a reflected scale; Silique long, 14-near, compressed, 2-celled, many-seeded.

428. TURRITIS .- Lin .- Tower-MUSTARD.

Calyx 4-leaved, converging, erect; Corol 4-petalled, erect; Silique very long, 4-angled, 2-celled, 2-valved, manyseeded.

429. DENTARIA.-Lin.-Tooth-wort.

Calyx 4-leaved, longitudinally converging; Corol 4-petalled; Stigma obtuse, notched; Silique long, columnar, 2-celled, bursting elasticly with revolute valves, many-seeded.

430, HESPERIS .- Lin .- DAME'S-VIOLET.

Calyx 4-leaved, closed; Petals 4, obliquely bent; a Gland between the shorter stamens; Sligma 2-forked at the base, converging at top; Silique long, straight, compressed, 2-celled, 2-valved, many-seeded.

431. ERYSIMUM.—Lin.—HEDGE-MUSTARD.

Calyx 4-leaved, closed; Corol 4-petalled; a double gland between the shorter stamens; Stigma capitate; Silique columnar, exactly 4-sided, 2-celled, 2-valved, many-seeded.

B.—Calyx open, with leaflets distant, above.

432. CARDAMINE.—Lin.—LADr's-SMOCK.

Calyx 4-leaved; Corol 4-petalled, spreading; Silique long, cylindric compressed, bursting elasticly with revolute valves, many-seeded.

433. SISYMBRIUM.—Lin.—CRESS.

Calyx 4-leaved, spreading; Corol 4-petalled, spreading; Silique long, gaping with straitish valves, many-seeded.

434. CLEOME.—Lin.—FALSE-MUSTARD.

Calyx 4-leaved, small; Petals 4, all ascending; Glands 3, 1 under each of 3 upper calyx leaves; Stamens from 6 to 20 or more; Silique 1-celled, 2-valved, many-seeded.

CLASS XVI....MONADELPHIA.

000

Order 1....PENTANDRIA.

435. PASSIFLORA .- Lin-PASSION-FLOWER

Calyx 5-parted, coloured; Corol 5-petalled; Nectary a triple crown, the exterior one longer, surrounding the styles within the petals; Styles 3, thicker above; Peto (Berry.-Lin:) somewhat ovate, pedicelled, 1-celled, many-seeded.

000

. . . 2....DECANDRIA.

436. GERANIUM .- Lin .- CRANE'S BILL.

Calyx 5-leaved; Corol 5-petalled, regular; Nectariferous glands 5, adhering to the base of the longer filaments; Pruit beaked, of 5 aggregate, 1-seeded capsules, each with a long recurved, naked, simple awn.

. . 3....POLYANDRIA.

437 GORDONIA — Lin. — FRANKLINIA. —
March.

Calyx simple, 5-parted, Corol 5-petalled; Style 5-cornered; Stigma 5-cleft; Capsule 5-celled; Seeds 2-fold, with a leafy wing.

#38. STEWARTIA.—Lin.—MATACHODEN-DRON.—Cav.

Calyx simple, rotate, Corol 5 petalled; Sigtes 5, united of distinct; Culistic 5-cented, 5-valved; Seeds single or 2-fold.

439. SIDA.—Lin.—INDIAN MALLOW.

Calyx simple, 5-creit, angular; Corol
5-petalled; Style many-parted; Capasules many, conjoined, 1-celled, 1 or 3second.

440. HIBISCUS.—Lin.—KETMIA, &c

Calyx double, exterior many leaved; interior 5-cleft or 5-toothed; Corol 5-petalled; Stigmas 5; Capsule 5-ceiled, 5-valved, many-seeded.

441. MALVA.—Lin.—Mallow.

Calyx double, exterior 3-leaved; interior 5-cleft; Corol 5-petalled; Sugmas.

numerous; Capsules numerous, one-

meeded.

CLASS XVII....DIADELPHIA.

000

Order 1....PENTANDRIA.

442. DALEA.—Willd—PETALOSTENUM.—— Mich.

Calyx 5-cleft; Corol papilionaceous, with the wings and keel united to the stamens; Stamens all connected; Leogune enclosed in the calyx, 1-celled, 1-seeded.

000

. : . 2 ... HEXANDRIA.

443. FUMARIA.—Lin.—Corrdalis.—Muhilenbu g — Fumitorr.

Calyx 2-leaved, very small; Corol 4-petalled, grinning, spurred; Filaments 2, each with 3 anthers; Capsule (Silique?) 1-celled, 1 or many-seeded.

200

. . . 3....OCTANDRIA:

444. POLYGALA .- Lin .- MILK-WORT.

Calyx 5-leaved, unequal, 2 of the leaflets larger, coloured; Corol irregular, frequently furnished with pencil-form appendages; Capsule 2-celled, 2-valved, inverse heart-shaped.

. . 4....DECANDRIA.

A.—Stamens all connected.—Corol papilionaceous.

445. AMORPHA.-Lin.-FALSE-INDIGO.

Calyx 5-toothed; Standard ovate, concave, obtuse; Wings o; Keel o; Lcogune falcate, 2-seeded.

446. LUPINUS .- Lin .- LUPINE.

Ca'yx 2-lipped; Standard roundish, notched; Keel 2 p rted; Anthers, 5 roundish and 5 alternate ones oblong; Legume leathery, compressed many-seeded.

447. CROTALARIA.—Lin.—RATTLE.

Catyx 5 parted; Standard generally large; Filaments connate, with a dorsal fissure; Legume turgid, inflated, 1-celled, few-seeded.

B.—Stamens in 2 sets, (mostly 1 and 9) Corol papilionaceous.

a. Legume 2 valved, many-seeded;
Stigma pubescent.

448. PISUM -Lin. - PEA.

Calyx 5-cleft the 2 superior divisions shorter; Style triangular, carinate and vilious above.

449. LATHYRUS.—Lin.—CHICKLING VETCH.

Calyx half 5-cleft, the two superior divisions shorter; Style flat, villous above, broader upwards.

450. VICIA.—Lin.—TARE & VETCH.

C lyx half 5 cleft, the superior teeth, shorter; Sligma transversely bearded on the inferior side.

451. PHASEOLUS .- Lin .- KIDNET-BEAN.

Calyx 2-lipped, the upper lip notched, the lower lip 3-toothed; Kecl, with the stamens and style spirally twisted.

452. DOLICHOS .- Lin - COWITCH.

Calux 4 toothed, the upper tooth notched; Standard with two chlong, parallel protuberances at the base, which compress the wings beneath them.

453. ROBINIA. -Lin. - Locust.

Calyx 4-5-toothed; Standard large, roundish; Keel, nearly semi-orbicular, the length of the wings; Stigma villous above.

b. Legume 2-valved, many-seeded; Stigma smooth.

454 ERYTHRINA .- Lin - CORAL- WOOD.

Calux entire or 2-lebed; Standard such longer than the keel, lanceolate; Wings minute; Legume cylindrical, with many convex seeds.

455. CLITORIA.—Lin.

Calyx 5-toothed; Standard very large, c vering the wings; Wings shorter than the standard; Keel shorter than the wings; Legume very long, linear, compressed, pointed. (Corol frequents ly resupine.)

456. GALACTIA. - Michaux.

Calyx 4-toothed; Corol 5-petalled, petals oblong, standard larger than the rest; Legume cylindrical, pointed.

457. GLYCINE.—Lin—American Liquorica, Calyx 2-lipped, the upper-lip a stch d; under-lip longer, 3-cleft; Keel of the corol reflecting the standard at top; Style spirally revolute.

458. GALEGA.—Lin.—GOAT'S-RUE.

Calyx half 5-cleft, the teeth awled, subequal; Wings furnished with an appendage; Legume with oblique strias, with the seeds interposed.

459. MEDICAGO.-Lin.-Lucerne.

Calyx half 5-cleft, equal; Wings affixed by an appendage to the keel; Legume compressed, falcate, or spirally twisted.

660. ASTRAGALUS.—Lin.—MILE-VETCH.

Calyx 5-toothed; Standard larger than the wings and keel; Legume 2-celled, many-seeded.

461. PHACA .- Lin .- FALSE MILK-FETCH.

Calyx 5-touthed; Standard longer than the wings and keel; Legume half 2-celled, many-seeded, giologs,

e. Legume mostly one-seeded.

462. TRIFOLIUM .- Lin .- CLOVER.

Flowers rather headed; Catyx 5-toothed; Legume scarcely longer than the calyx, 1-valved, not opening, deciduous.

463. PSORALEA - Lin.

Calux sprinkled with callous points. 5-cleft; Legume the length of the calyx, compressed.

464. STYLOSANTHES .- Swartz.

Calyx tubular, very long, bearing the corol; Germ beneath the corol; Les gume 1 or 2-jointed.

465. LESPEDEZA.—Michaux—Hedrsarum, —Lin.

Calyx 5-parted, nearly equal; Legume small, lenticular,

d. Legume jointed.

466. HEDYSARUM .- Lin .- SAINFOIN.

Calyx 5-cleft; Corol with the keel transversely obtuse; Legume with joints 1seeded, compressed.

467. ZORNIA.—Michaux.—Gmelin.

Calyx campanulate, 2-lipped; Standard heart-shaped, revolute; Anthera alternately oblong and globose; Legume jointed, hispid.

468. AESCHYNOMENE.—Lin.

Culyx 2-lipped, upper lip 2-cleft, underlip 3-toothed; Legume compressed, with 1-seeded, truncate joints.

600

(Class Polyadelphia.)

HOPEA.—See No. 356.

ASCYRUM.—See No. 352.

HYPERICUM.—See No. 361.

CLASS XVIII....SYNGENESIA.

000

This class includes all the plants with compound flowers; they are mostly furnished with 5 stamens united by their anthers into a cylinder. It is divided into 5 orders, viz.

- ÆQUALIS.—In which all the florets are hermaphrodite and similar in form, whether they are ligulate or tubular.
- SUPERFLUA.—Radiate flowers; Hermaphrodite florets in the disk; Fertile florets in the ray.
- FRUSTRANEA —Radiate flowers; Fertile hermaphrodite florets in the disk; Barren female florets in the ray.
- NECESSARIA.—Radiate flowers; Barren hermaphronite florets in the disk; Fertio female florets in the ray.
- SEGREGATA.—When besides the common perianth, each flower is furnished with its proper calyx.

Order 1 ... Æ QUALIS.

A.—Semiflosculous: all the corols ligulate.

469. TRAGOPOGON.—Lin—GOAT'S BEARD.

—SALSIFT.

Calyx simple, many-leaved; Paphue

Calyx simple, many-leaved; Pappus feathery, stiped; Receptacle naked.

- 470. LEONTODON.—Lin.—Dandelion.

 Calyx double, many-leaved; Pappus hairy, stiped; Receptacle naked.
- 671. PRENANTHES.—Lin—WILD LETTUCE.

 Calyx double, the exterior smaller; Pafifius hairy, sub-sessile; Receptacle naked; Florets in a simple series.
- 472. LACTUCA.—Lin.—Lettuce.

 Calyx imbricated, cylindric, with membranous margin; Paphus hairy, stiped;

 Receptacle naked; Seeds polished.
- 473. SCORZONERA.—Lin.—VIPER GRASS.

 Calyx imbricated with scales scarious on the margin; Papipus feathery, stipped; Receptacle naked.
- 474. WIERACIUM.—Lin.—HAWK WEED.

 Calyx imbricated, ovate; Pappus hairy, sessile; Receptacle naked.
- 475, SONCHUS.—Lin.—Sow-thistle.

 Calyx imbricated, ventricose Pappius
 hairy, sessile; Receptacle naked.

476. HYOSERIS.—Lin.—Swine's Lettuck.

Cayx double, the exterior very small; Pappus ouble, exterior capillary, interior chaffy-awned; Receptacle naked.

477. KRIGIA, - Willd .- Hrosents .- Lin.

Calyx simple, many-leaved; Pappus membranaceous, 5-leaved, with 5 bristies alternately intermixed; Receptacle naked.

478. CICHORIUM.—Lin — ENDIVE.

Calyx double; Pappus many-leaved, chaffy; Receptacle somewhat chaffy.

B .- CAPITATE .- Corole flosculous.

479. STOKESIA - L'Herit.

Calyx imbricated; Corols ficsculous reddiate; Pappus 4-bristled; Receptacle naked.

- 480. LIATRIS.—Willd.—SERRATULA.—Lin.
 Calyx imbricated, oblong; Corols flosculous; Pappus feathery, coloured.
- 481. VERNONIA—Willd—Serratula—Lin,

 Calyx imbricated, ovate; Corols flosculous; Pappus double, exterior chaffy,
 interior capillary; Receptacle naked.
- 482. CNICUS.—Lin.—Blessed Thistle.

 Calyx imbricated, ventricese, with pricked by scales; Pappus feathery, Receptate ele villous.

432. CARDUUS .- Lin .- THISTLE.

Calyx imbricated, ventricose, with prickly scales; Pappus capillary or rough; Receptacle villous.

484. ARC'TIUM .- Lin .- BURDOCK.

Calyx globose, with scales furnished at top, with an inflected hook; Pappus bristly-chaffy; Receptacle chaffy.

C.-Discolb.- (As if the florets of the ray were wanting.)

485. BIDENS .- Lin .- (SPANISH NEEDLES.)

Calyx double, the exterior spreading; Corol with sometimes a floret or two in the ray; Seed 4-cornered with 2 or 4 erect, scabrous awns; Receptacle chaffy.

486. MELANANTHERA.—Michaux.—Br-

Cal. x of 2 rows of uniform, ovate, imbricated leaves; Seeds square, crowned with 5 rough bristies; Receptacle Convex, with obovate, keeled, right scales.

487. KUHNIA .- Lin .- CRITONIA .- Mich.

Caly x imbricated, cylindr.cal; Pappus seathery, sessile; Receptucle naked.

488. EUPATORIUM.—Lin—HEMP-AGRIMO

Calyx imbricated, oblong; Style prominent, cloven half way down, divaricated; Pathius rough or feathery; Recentable naked.

489. AGERATUM.-Lin.

Calyse obling with leaflets disposed in & for 3 ranks; Papina seessile, 5-awied; Receptacle naked. Florets 4 or 5-clefts

490. CHRYSOCOMA.—Lin.—GOLDILOCHS.

Calyx hemispherical, imbricated; Paper flux simple; Receptacte naked; Style scarcely longer than the florets.

491. MIKANIA.—Willd—Euratorium—Line Calyx 4 or 6 leaved, equal, 4 or 6 flowered; Pappus hairy; Receptacle naked.

492. CACALIA -Lin.

Calyx cylindric, oblong, with scales at the base; Pappus hairy; Receptacle naked,

493. ETHULIA.—Lin—Sparganophorus.—
Mich.

Calyx simple, composed of many pointed scales; Seeds crowned with a membranaceous margin; Receptacle naked.

694. HYMENOPAPPUS.—L'Herli—Rothia. Lam.

Calyx many-leaved, spreading; Pappus many-leaved, chaffy; Receptacle naked.

495, MARSHALLIA.—Muhl—Persoonia.—
Mich.

Calyx simple, many-leaved; Pappus 5-leaved, chaffy; Receptagle chaffy.

. . 2...SUPERFLUA.

A .- Discoid flowers.

496. BACCHARIS—Lin—Plowman's SPIKE-

Calyx imbricated, cylindric; Pappus hairy; Receptacle naked. Female and hermaphrodite Florets intermixed.

497. CONYZA,-Lin,-FLEA BANE.

Calyx imbricated, roundish; Pappus simple; Receptacle naked. Florets of the circumference female, apetalous, or funnel-shaped, with a 3-cleft border, not composing a ray.

498. GNAPHALIUM .- Lin .- CUD-WEED.

Calyx imbricated, with the marginal scales rounded, scarious, colored; Papafus hairy or feathery; Receptacle naked.

499. ARTEMISIA .- Lin .- Mug-wort.

Calyx imbricated, with scales rounded, converging; Pappus o; Receptacle sub-villous, or nakedish.

B .- Radiate flowers.

FOO. CHRYSANTHEMUM.—Lin.—Ox-ETE-

Calyx hemispherical, imbricated, with the scales dilated at the margin, membranous; Seed without a marginal ring; Receptacle naked. 501. BELLIS.—Lin.—Daisr.

Calyx hemispherical scales equal; Panjus o; Receptacle naked; conical; Seed obovate.

502. PYRETHRUM.—Smith.—CHRYSANTHE.

Culyx hemispherical, imbricated with scales acutish, with a scarious margin! Seed crowned with a marginal ring; Recentuate naked.

JO3. ARNICA.—Lin.

Calyx with leaflets equal; Pappus simple; Receptacle naked. The florets of the ray have 5 filaments without anthers.

- 504. DORONICUM—Lin—Leopard's Bang.

 Calyx scales equal, in 2 rows, longer than the disk; Pappus simple; Receptacle naked; Seeds of the ray destitute of pappus.
- Sos. INULA.—Lin.—ELECAMPANE.

 Calyx imbricated; Pappus simple; Ans
 thers 2-bristled at the base; Receptacle naked. (Florets of the ray somewhat yellow.)
- 506. ERIGERON.—Lin.—Less flea Bane.

 Calyx imbricated; Faffus simple;

 Receptacle naked; Florets of the ray
 linear, very narrow, numerous; (generally blue or white.)
- 507. SOLIDAG().—Lin.—GOLDEN ROD.

 Calyx scales imbricated, close, Pappus simple.; Florets of the ray about 5; Res. ceptacle naked.

508. CINERARIA.—Lin.—SKr-FLOWER.

Calyx simple, many leaved, equal; Pafts fus simple; Receptacle naked.

\$09. SENECIO.-Lin.-RAG-WORT.

Calyx cylindric, with scales at the base, leasiets with blackish tips; Pappue simple; Receptacle naked.

\$10. TUSSILAGO .- Lin .- Colt's-Foot.

Calyx scales equal, equalling the disk, sub-membranous; Palifus simple; Receptacle naked. Female florets liguilate, generally without teeth.

511. BOEBERA .- Willd .- TAGETES .- Mich.

Calyx double, exterior, many-leaved, interior 8-leaved; Pappus hairy; Receptacle naked.

512. ASTER.—Lin.—STAR-FLOWER.

Calyx imbricated, the inferior scales
spreading; Pappus simple; Recenta-

spreading; Fappus simple; Receptacle naked. Florets of the rays more than 10.

than 10.

513. HELENIUM—Lin—False Sun flower.

Calyx 1-leafed, many-parted; Seeds 5awned; Receptacle naked in the center,
chaffy in the ray; Florets of the ray,
half 3-cleft.

614. BOLTONIA.—L'Herit—MATRICARIA— .
Lin.

Calyx imbricated; Seeds tooth-awned at top; Receptacle hemispherical, hoaney-combed. Florets of the ray numerous.

515. ECLIPTA.—Lin.

Calyx many-leaved, leastets in a double series; Pappus 0; Receptacle chaffy; Florets of the disk, mostly 4-cleft.

516. ANTHEMIS.—Lin.—Canomile.—May

Calyx hemispherical, sub-equal; Seeds naked, or with a membranous margin; Receptacle chaffy. Florets of the ray more than 5.

\$17. ACHILLEA .- Lin .- YARROW.

Calyx imbricated, ovate; Pappus o. Receptacle chaffy; Florets of the ray 5 to 10.

618. TETRAGONOTHECA.—L'Herit—Po-

Calyx 1-leafed, 4-angled, 4-parted; Panpus 0; Receptacle chaffy.

519. SIEGESBECKIA.-Lin.

Calyx double, the exterior 5-leaved, spreading; interior many-leaved, Pappius 0; Receptacle chaffy.

520. PHAETHUSA.—Gart.—Willd.

Calyx imbricated; Pappus o; Seeds hispid; Receptacle chaffy; Florets of the ray 1-3.

\$21. BUPTHALMUM .- Lin .- Ox-EYE.

Calyx imbricated with scales in a donble or triple series; Seeds crowned with an obscure margin, with sharp edges, particularly in the ray; Receptuale chaffy.

\$22. VERBESINA .- Lin.

Calyx in a double order; Seeds awned at top; Receptacle chaffy; Florets of the ray about 5.

000

. . . 3....FRUSTRANEA.

523. RUDBECKIA—Lin—DWARF SUN-FLOW-

Calyx with a double order of scales; Seeds crowned with a 4-toothed margin; Receptacle chaffy, conic.

\$24. GALARDIA, - Lam. - Mich.

Calyx many-leaved, imbricated, flat; Seeds crowned with chaffy leaves; Receptacle chaffy, hemispherical. Florets of the ray 3-parted.

525. HELIANTHU 3.—Lin.—Sun-flower.

Caly x imbricated, rather ragged; Seede crowned with 2 chaffy leaves; Receptacle chaffy, flat,

\$26. COREOPSIS .- Lin .- TICK-SEED.

Calyx many-'eaved, generally double, sometimes simple and somewhat imbricated; Seeds compressed, crowned with a 2 or 3-horned border; Receptable chaffy.

\$27. CENTAUREA.—Lin.—Blue-Bottle,

Calyx imbricated, roundish; Pappus simple; Receptacle bristly; Corols of the ray funnel-shaped, longer, irregular.

. . . 4....NECESSARIA.

■28. BALTIMORA.—Lin.

Calyx cylindric, many-leaved; Pappue o; Receptacle chaffy; Ray 5-flowered.

629. SILPHIUM.—Lin-FALSE SUN-FLOWER.

Calyx ragged (squarrose); Seeds margined, 2-horned; Receptacle chaffy.

530. POLYMNIA.—Lin.

Calyx double, exterior 4 5-leaved, interior, 10- eaved, leaflers concave; Papapus of Receptacle chaffy.

\$31. CHRYSOGONUM.—Lin.—Gold-foint.

Calyx simple, 5-leaved; Seeds inclosed in a chaffy 5-scaled pericarp, and crowned with a simple, toothed scale; Receptuate chaffy, chaff dissimilar in form.

632. PARTHENIUM .- FALSE FEVER-FEW.

Calyx 5 leaved; Seeds naked, obovate; Receptacle chaffy.

533. IVA .- Lin .- FALSE BARK-TREE.

Calux 3-'eaved; Styles 2, long; Seed naked, obtuse; Receptacle hairy; Ray 5-flowered.

. . 5 ... SEGREGATA.

#84. ELEPHANTOPUS.—Lin.

Common calyx? eaved; Calucle 4-flowing ered; Florets ligulare he maphrodic; Seeds crowned with bristles; Reception also naked.

ERRATUM.—INULA No. 505—read—Florets of the ray cleany yealow.

CLASS XIX....GYNANDRIA.

000

Order 1 MONANDRIA.

ORCHIDÆ. -- 535 to 543.

Corol superior, 5 petalled, with a lower lip or Nectary. Style bearing a 2-celled anther; Pollen agglutinated in small roundish masses; Capsule 3-celled, 3-valved, opening at the angles; Seeds very numerous, dust-like. (Smi h considers the 3 outer fietals as a callyx of 3 leaves.)

A.—Lip spurred.

535. ORCHIS.—Lin.

Corol 5-petailed, the upper petal vaulted; Lift spurred from the base beneath; Anther terminal, adhering.

536, LIMODORUM.—Lin.

Corol 5-petalled, somewhat spreading; Lip spreading, elongated at the base behind into a spur; Anther a terminal deciduous lid.

B.—Corol without a spur.

537. NEOTTIA.—Swartz —OPHRTS.—SATT-RIUM —Lin.

Corol 5-petalled, grinning, the exterior lateral petals united in front, about the ventricose base of the lip; An her parallel to the style, affixed behind.

638. EPIPACTIS.—Swartz.—OPHRYS.—Sta

Corol 5-peralied, erect, spreading; Anther a terminal permanent lid; Pollen p, wdery, granulated.

639. CYMBIDIUM.—Swartz.—LIMODORUM. OPHRTS.—Lin.

Corol 5 petalled, erect, spreading; Lift concave at the base, with a spreading border; Anther a terminal deciduous lid; Pollen globose.

540 MALAXIS .- Swartz .- OPHRYS .- Lin.

Corol 5-petalled, reversed, spreading; Lift ascending, concave at the base, Anther a terminal deciduous lid.

841. ARETHUSA.-Lin.

Co ol 5-petalled, somewhat grinning; Petals somewhat conniving; Anther a terminal permanent lid; Pollen powedery, granulated.

142. EPIDENDRUM.—Lin.

Corol 5-petalled, spreading; Lift tubular at the base, attached to the fore part of the style; Anther a terminal deciduous lid.

. . . 2....Diandria.

448. CYPRIPEDIUM —Lin.—LADIES' SLIP.

Corol 4-petal.ed, spreading; Lift large, inflated, hollow; Style cylindrical, with a terminal lobe; Capsule 1-celled, 2-valved, many-seeded.

000

. . . 3....HEXANDRIA.

644. ARISTOLOCHIA.—Lin.—BIRTH-WORG.

Calyx 0; Corol 1 petal ed, the base ventricese, the border dilated, extended below into a long tongue; Capsule ineferior, 6-celled, many-seeded.

345. PISTIA.-Lin.

Calyx 0; Corol 1 petalled, contracted in the middle, the border ear-form internally plaited with a fild on all sides; Anthers 3-8, sitting on the filament; Capsule 1-celled, many-second, in the bottom of the corol.

CLASS XX....MONOECIA.

(Stamens and Pistils in distinct flowers on the same plant.)

000

Order 1 ... Monandria.

546. CAULINIA .- Wild .- NAJAS .- Mich.

MALE. Calyx o; Corol o; Anther sessile.
FEMALE. Calyx o; Corol o; Soyle filiform; Stigma cloven; Capsule 1-seeded.

547. ZANNICHELLIA-Lin-TRIPLE-HEAD-ED POND WEED.

MALE. Calyx o; Corol o.

FEMALE. Calyx 1-leaved; Corol o; Germs about 4; Seeds 4.

\$48. CHARA.—Lin.

MALE. Calyx o; Corol o; Anther globose, sessile

FEMALE. Calyx o; Corol o; Style o; Stigmas 5; Berry 1-ceiled, many-seed-ed.

549. ZOSTERA – Lin – Grass-wrack – Seaweed.

MALE. Calyxo; Corol o; Anther ovate, inserted upon one side of the spadix. Female. Calux o; Corol o; Germ o-

vate, inserted upon one side of the spadix; Style cloven; Capeule 1-seeded.

350. FLATERIUM .- Lin .- Spring-courbe

MALE. Calyx o; Corol salver-form. FEMALE. Calyx o; Corol salver-form; Cancule inferior, 1-celied, 2-valved.

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. . . 2....DIANDRIA.

551. LEMNA.—Lin.—Duck's-MEAT.

MALE. Calyx 1-leaved; Corol o. FEMALE. Calyx 1-leaved; Corol o; Style 1; Capsuse 1 celled, 2-seeded.

552. PODOSTEMUM .- Michaux.

MALE Calyx o; Corolo; Stamens 2, affixed to a pedicel.

FEMALE. Calyx o; Corol o; Stigmas 2,

FEMALE. Calyx 0; Corol 0; Stigmas 2, sess le; Capsule 2-celled, 2-valved, many-seeded.

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. . . 3....TRIANDRIA.

\$53. 'TYPHA.—Lin.—CAT'S-TAIL FLAG.

MALE. Ament cylindrical; Calyx obscure.

3-leaved; Corol o.

FEMALE. Ament cylindrical, under the male-flowers; Calyx o; Corol o; Seed 1, pedicelled; pedicel girt, with a long hair at the base.

554. SPARGANIUM .- Lin .- BURR-REED.

MALE. Ament roundish; Calyx 3-leaved; Corol o.

FEMALE. Ament roundish; Calyx 5leaved; Corolo; Stigma cloven; Drupe juiceless, 1-seeded.

555. ZEA.—Lin.—INDIAN CORN.

MALE. Calyx, glume 2-flowered, awn-

less; Corol, glume awnless.

FEMALE. Calyx, glume 2-valved; Corol glume 2-valved; Style 1, filiform, pendulous; Seed solitary, immersed in an oblong receptacle.

556. TRIPSACUM.—Lin.

MALE. Calyx, glume 2-flowered, the exterior male, the interior neuter; Co-

rol, glume membranaceous.

FEMALE. Calyx, glume 1 flowered, covered with a one-leafed involucre, perforated with sinuses; Corol, glume 2valved; Styles 2; Seed 1.

557. COIX.—Lin.—Job's TEARS.

MALE flowers in a loose spike; Calyx glume 2-flowered, 2-valved, awnless;

Corol valved, awniess.

FEMALE flowers beneath the male; Calyx glume 2 flowered; Corol glume awnless; Style 2-parted; Seed covered by the ossified calyx.

558. CAREX.—Lin.—Sedge.

MALE. Ament imbricated; Calyx, scale

solitary; Corol o.

FEMALE. Ament imbricated; Calyx, scale solitary; Corol ventricose, 1-pe-

talled, 2-toothed at top; Stigmas 2 of 3: Nut, 3-sided, inclosed in the permanent corol.

559. SCLERIA. - Schreber - WHIP-GRASS. MALE. Calyx glume 2 or 6-valved; Corol glumes, awnless.

FEMALE. Calyx glume 2 or 6-valved, 1-flowered; Corol o; Stigmas 1-3; Nut coloured, sub-globose.

560. COMPTONIA.—Ait.—LIQUIDAMBAR.— Lin .- SWEET-FERN.

MALE. Ament cylindrical, imbricated with 1-flowered scales; Calyx 2-leaved; Corol o; Filaments forked.

FEMALE. Ament ovate, insbricated with 1-flowered scales; Calyx 6-leaved: Corol o; Styles 2; Nut ovate.

561. TRAGIA.—Lin.

MALE. Calyx 3-parted ; Corol o.

FEMALE. Calyx 5-parted; Corol o; Style 3-cleft; Capsule 3-grained, \$-celled; Seede solitary.

562. SERPICULA.—Lin.—ELODBA.—Mich.

MALE flowers sessile; Calyx 3stoothed; Corol 3 petalled.

FEMALE flowers peduncled; Calyx 3parted; Corol 3-petalled; Nul cylindrical, 1-celled.

563. ERIOCAULON.—Lin.—PIPE-WORT.

Common calyx of many leaves, manyflowered:

MALE flowers central. Corol of 1-petal

FEMALE flowers in the margin. Corol of 2 petals; Stigmas 2-3; Capsule 2-3-celled; Seeds solitary.

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. . . 4....TETRANDRIA.

564. PACHYSANDRA.—Michaux.—Willd.— (TRICERA.)

MALE. Calyx 4-leaved; Corol o.

FRMALE. Calyx 4 leaved; Corol o;

Styles 3; Capsule 3-horned, 3-celled;

Seeds 2.

565. BOEHMERIA.—Jacq.—Willd.

MALE. Calyx 4-parted; Corol o; Neclary o. FEMALE. Calyx o; Corol o; Style 1, Seed

1.

566. URTICA.—Lin.—NETTLE.

MALE. Calyx 4-leaved; Corol o; Nectary central, cup-shaped.

FEMALE. Calyx 2-valved; Corol o;

Seeds 1, shining.

567. PARIETARIA.—Lin.—PELLITORY.

Involucre divided, 3-5-flowered, 1 flower female, the others hermaphrodite.

HERMAPHRODITE. Calya 4-cleft; Corol o; Stamens 4; Style 1; Seed 1, above, elongate.

FE AALE. Calyx 4-cleft; Corol o; Style 1; Seed 1, above, elongate.

568. MORUS.—Lin.—MULBERRY.

MALE. Calyx 4-parted; Corol o;

FEMALE. Calyx 4-leaved; Corol o, Style. 2; Seed 1, covered by the berried calyx.

569. ALNUS .- Willd .- BETULA -- Lin .- AL-DER.

MALE. Ament long, cylindrical, composed of wedge shaped, truncate, 3-flowered receptacles; Calyx a scale; Corol 4-parted.

FEMALE. Ament short, conical; Calyx. scales 2-flowered; Corol o; Seeds com-

pressed ovate, without wings.

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. . . 5....PENTANDRIA.

570, SCHISANDRIA,—Michaux,—Willd.

MALE Calyx 9-leaved; Corol o; Anthers connected at top;

FEMALE. Calyx 9 leaved; Corol o; Pis-

tils numerous; Berries 1-seeded, inserted upon a long filiform receptacle.

571. XANTHIUM.-Lin.-Less Burdock.

MALE. Common Calyx imbricated, many-flowered; Co of funnel-form, 5-cleft; Receptacle chaffy.

FEMALE. Involucre 2-leaved, 1-flowered; Corol o; Druhe dry, muricated. 2 cleft at top; Nut 2-celled.

572. AMBROSIA.-Lin.

MALE. Common Calyx 1-leafed; Corol funnel-form 5-cleft.

FEMALE. Calyx 1-leafed entire, the belly 5-toothed, 1-flowered; Corol o; Nut 1-seeded, from the indurated callyx.

573. AMARANTHUS.—Lin.—PRINCES-FEA-

MALE. Calyx 3 or 5-leaved; Corolo; Starmens 3.or 5.

FEMALE. Calyx 3 or 5-leaved; Corol o; Styles 3; Capsule 1-celled, circumcised, Seed 1.

574. CROTONOPSIS,—Michaux.—Willd.

MALE. Calyx 5-parted; Corol 5-petalled. FEMALE. Calyx 5-parted; Corol 5-petalled; Stigmas 3, doubly cloven; Capsulc 1-seeded, not opening.

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. . . 6....HEXANDRIA.

575. ZIZANIA.—Lin.—WILD RICE.

MALE. Calyx o; Corol, glume awnless, mixed with the females.

FEMALE Calyx o; Corol, glume 2-valved, hooded, awned; Style 2-parted; Seed 1, clothed with the plaited corol.

7....Polyandria....(More than 7. Stamens.)

576. CERATOPHYLLUM.—Lin.—Horn-

MALE. Calyx many-parted; Corol o; Stamens 15-20, very short; Anther 3-bristled.

FEMALE. Calyx 6-leaved, imbricated; Corol o; Pustil 1; Style filiform; Nut 1-seeded.

577. MYRIOPHYLLUM — Lin. — WATER

MALE. Calyx 4-cleft; Petals 4, caducous; Stamens 8.

FEMAIE. Calyx 4-cleft; Petals 4, caducous; Stigmas 4, sessile; Capsules 4, 1-seeded.

578. SAGITTARIA.—Lin.—ARROW-HEAD.

MALE. Calyx 3-leaved; Corol 3-petalled; Filaments mostly 24.

FEMALE. Calyx 3-leaved; Corol 3-petalled; Pistils many; Seeds many, naked.

579. CALLA. - Lin. - WATER-ARUM.

Spathe 1-leafed, ovate, expanding; Spadix covered with the fructification; Stamens and Pistils intermixed.

MALE. Calyx o; Corol o; Anthers ses-

FEMALE Calyx o; Corol o; Berries 1-celled, crowned with a short style.

580. ARUM .- Lin .- INDIAN TURNIP, &c.

Spathe 1-leafed, cowled; Spadix naked, above, female below, stamineous in the middle.

MALE. Calyx o; Corol o; Anthers sessile. FRMALE. Calyx o; Corol o; Germs inserted at the base of the spadix; Berry 1-celled, many-seeded.

581. CALADIUM.-Vent.-ARUM.-Lin.

Spathe swelling; folded in its lower part; Spadix cylindric with male flowers above, and female ones on the lower part.

MALE. Calyxo; Corolo; Anthers peltate,

many celled.

FEMALE. Calyx o; Corol o; Stigma sessile, umbilicate; Berry 1-celled, many-seeded.

382. CLUSIA.—Lin.—BALSAM-TREE.

MALE. Calyx 4-6-leaved; Corol 4-6-petailed; Stamene numerous; Germ abortive.

FEMALE. Calyx and corol as in the male; Stamens without anthers; Style 0, Stigma radiate, petate; Capsule with 4-3 or more cells, and as many valves; Seeds numerous, covered with a succulent pup. (Sometimes has hermathrodute flowers.)

583. MIMOSA.—Lin.—Acacia—Willd.

Polygamous.—MALE. Calyx 5-toothed; Corol funnel-form, 5-cleft; Stamens 5 or more.

HERMAPHRODITE. Calyx, Corol and Stamens as in the male; Pistil 1; Legume long, 2-valved, with transverse partitions.

382. SCHRANKIA. - Willd - Mimos A - Mich.

Polygamous.-MALE. Calyx 5-toothed;

HERMAPHRODITE. Calyx and Corol as in the male; Pistil 1; Legume 4-valved:

583. QUERCUS.—Lin.—OAK.

MALE. Calux mostly 5-cleft; Corolo; Stamens 5-10,

FEMALE. Calyx 1-leafed, very entire, rugged; Corol o; Styles 2-5; Nut leathery, girt at its base with the permanent calyx.

584. JUGLANS .- Lin .- HICKORY, NUT, &c.

MALE. Ament imbricated; Calyx 1-leafed, scale-form; Corol 6-parted; Fi-laments 4 18.

FEMALE. Calyx 4-cleft above; Co-rol 4-parted; Styles 2; Drupe with a furrowed, lobed Kernel.

585. FAGUS.-Lin.-BEECH.

MALE Calyx 5-cleft, campanulate; Corol o; Stamene about 12.

FEMALE. Calyx 4-toothed bristly; Co-rol o; Germs 2; Nuts 2; inclused in the 4-cleft, leathery, prickly calyx.

586. CASTANEA, - Gert - Willd - CHESNUT.

MALE. Ament naked; Calyx 5-leaved;

FEMALE. Calyx 5 or 6-leaved, prickly; form; Auts 3, enclosed in the prickly

587. BETULA.-Lin.-BIRCH.

MALE. Ament imbricated, with 3-flowered, peltate scales; Calyx, a scale; Corol e; Stamens 10-12.

FEMALE. Ament imbricated; Calyx, scale 2-flowered; Corot o; Seed 1, winged.

588. CARPINUS .- Lin .- HORNBEAM.

MALE. Ament imbricated; Calyx a fringed scale; Corol o; Stamens 10.

FEMALE. Ament imbricated; Calyx scale 2-flowered; Corol 3-c.eft; Nut ovate, furrowed.

589. OSTRYA. - Willd. - CARPINUS. - Lin.

MALE. Ament imbricated; Calyx a scale; Corol o; Filaments bi anchy.

FEMALE. Ament naked; Calyxo; Corol o; Capsules inflated, imbricated, 1-seeded at the base

590. CORYLUS .- Lin .- HAZEL-NUT.

MALE. Ament imbricated, tong, cylindrical; Calyx a 3-cleft, 1-flowered scale; Corol o; Stamens 6-8.

FEMALE. Ament somewhat globular, small; Calyx biped, lacerated; Corolo; Styles 2; Nut ovate, girt with the permanent enlarged calyx.

591. PLATANUS.—Lin.—PLANE-TREE.

MALE. Ament globular; Calyx o; Corol scarcely manifest; Anthers surrounding the filament.

FEMALE. Ament globular; Calyx many-

leaved; Corol o; Styles with stigma recurved; Seeds roundish, crowned with the style, hairy at the base.

592. LIQUIDAMBAR .- Lin .- SWEET-GUM.

MALE. Ament conical, girt with the 4leaved involucie; (.alyx o; Corol o; Filaments numerous.

FEMALE. Ament globular, girt with the 4-leaved involucre; (aiyx 1-leated, urceolate, z-flowered; Corol o; Styles 2; Capisules 2, 1-cehed, many-secued.

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. . . 8....Monadelphia.

593. PINUS .- Lin .- PINE, HEMLOCK, &c.

MALE. Calyx 4-leaved; Corol o, Stamens numerous; Anthers naked.

FEMALE. Ament strobilaceous; Calyx a 2-flowered scale; Corolo; Nuts winged.

594. CUPRESSUS .- Lin .- CTPRESS.

MALE, Ament imbricated; Calyx a scale; Co ol o; Anthers 2-4, sessile, without filaments.

FEMALE. Ament strobilacorus; Calyx a scale, 1 flowered; Corolo; Stigma 1-2 concave points; Aut angled.

595. THUJA .- Lin .- ARBOR-VITE.

MALE. Ament imbricated; Calyx a scale; Corol o; Anthers 4.

FEMALE. Ament strobilaceous; Calyx a 2-flowered scale; Corol o; Nut 1, girt with a wing.

596. ACALYPHA -Lin.

MALE. Calyx 3 4-leaved; Corol o; Stamens 8-16.

FEMALE. Calyx 3-leaved; Corolo; Styles 3; Capsule 3-grained, 3-celled; Seed 1.

597. CROTON.—Lin.

MALE. Calyx cylindric, 5-toothed; Corol 5-peta led; Stamens 10 15.

FEMALE. Calyx many-leaved; Corol o; Styles 3, cloven; Capsule 3-celled; Seed 1.

598. JATROPHA.—Lin.

MALE. Calyx o, or 5-leaved; Corol 1-petalled, funnel form; Stamens 10, alternate ones shorter.

FEMALE. Calyx o; Corol 5-petalled, spreading; Styles 3, cloven; Capsule 3-celled; Seed 1.

599. RICINUS .- Lin .- PALMA CHRISTI.

MALE. Calyx 5-parted; Corol o; Stamens numerous.

FEMALE. Calyx 3-parted; Corolo; Styles 3, bifid; Capsule 3-celled; Seed 1.

60), STILLINGIA.—Lin.

MALE. Calyx hemispherical, many-flowered; Corol tubular, knawed.

FEMALE. Calyx 1-flowered, beneath; Corol above; Style 3-cleft; Capsule 3grained.

601, PHYLLANTHUS.—Lin.

MALE. Calyx 6-parted; Corol o; Filaments 3, united. FEMALE. Calyx 6 parted; Corolo; Nectary with a 12-angled margin; Styles 3; Capsule 3-grained.

602. HIPPOMANE.—I.in —— Manchineel-TREE.

MALE. Calyx campanulate, notched; Coroto; Filaments columnary; Anthers 4. FEMALE. Calyx 3-leaved; Corolo; St. le

FEMALE. Calyx 3-leaved; Corolo; Stile very short; Stigma 7-cleft; Drupe with a 7-celled nut.

603. MOMORDICA.—Lin.—Sicros—Mich.—
BALSAM APPLE.

MALE. Calyx 5 cleft; Corol 5-parted; Filaments 3.

FEMALE. Calyx 5-cleft; Corol 5-parted; Style 3-cleft; Pepo bursting elasticly.

604. SICYOS.—Lin—SINGLE-SEEDED CUCUM-

MALE. Calyx 5-toothed; Corol 5-parted; Filaments 3.

FEMALE. Calyx 5-toothed; Corol 5-parted; Style 3-cleft; Pepo 1-seeded.

605. CUCURBITA .- Lin. - Gourd, &c.

MALE. Calyx 5-toothed; Corol 5-cleft; Filaments 3.

FEMALE. Calyx 5-toothed; Corol 5 cleft; Pistil 3-cleft; Pepo 3-celled; Seeds with a tumid margin.

CLASS XXI....DIOECIA.

(Stamens and Pistils in distinct flowers and on separate plants.)

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· · · 2...DIANDRIA.

606. VALLISNERIA.-Lin.

MALE. Shathe 2-pared; Shadix covered with florets; Corol 3 parted.

FEMALE. Spathr 2-cleft, 1-flowered; Caulyx 3-parted, a rove; Corol 3-petalled; Styles 3; Capsule 1-celled, many-seeded.

607. SALIX.—Lin.—WILLOW.

MALE. Ament imbricated with 1-flowered scales; Corol o; Gland of the base nectariferous.

FEMALE. Ament as in the male; Corol o; Styles 2 cleft; Capsule 1-celled, 2-valved; Seeds downy.

608. BORYA. -Willd .- ADELIA .- Mich.

MALE. Calyx 4-leaved; Corol o; Stamens 2-3.

FEMALE Calyx 4-leaved unequal; Coralo; Stigma capitate; Berry 1-seeded.

609. CERATIOLA.—Michaux.

MALE. Calyx o; Corol o; Stamens 2. FEMALE. Calyx o; Corol o; Stigma many-parted; Drupe 2-seeded.

. . . S....TRIANDRIA.

610. EMPETRUM .- Lin .- CROW-DERRY.

MALE Calux deeply 3-cleft; Corol 3-petalled; Stamens capillary, from 3 to 9.

FEMALE. Calyx deeply 3-cleft; Corol 3-petalled; Stigmas 9; Berry superior, 3-9 celled.

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. . . 4....TETRANDRIA.

611. VISCUM .- Lin .- MISLETO.

MALE. Calyx 4-parted; Corol o; Filaments o; Anthers growing to the calyx.

FEMALE. Calyx 4-leaved, above; Style o; Corol o; Berry 1 seeded; Seed heart-shaped.

612. HIPPOPHAE .- Lin-SEA BUCKTHORN.

MALE Calvx 2-parted; Corol o. FEMALE. Calyx '-cleft; Corol o; Style 1; Berry 1-seeded.

613. MYRICA.—Lin.—BAr-BERRY.

MALE. Ament with scales lunate; Corol o.

FEMALE. Ament with scales lunate; Corol o; Styles 2; Berry 1-seeded.

. . . 5...PENTANDRIA.

614. HAMILTONIA — Willd.—PTRULARIA. — Mich.

Polygamous.—HERMAPHRODITE. Catyx 5-cieft; Corol o; Nectury with 5toothed disk; Stamens 5; Pietil 1; Drupe inferior.

MALE. Calyx 5-parted; Corol o; Nectary with 5-toothed disk; Stamens 5.

615. ZANTHOXYLUM. Lin.

MALE. Calyx 5-parted; Corol o. FEMALE. Calyx 5-parter; Corol o; Pistils 5; Capsules 5; one-seeded.

616. IRESINE.—Lin.

MALE. Calyx 2-leaved; Corol 5-petalle1; Nectaries 7.

FEMALE. Calyx 2-leaved; Corol 5-petalled; Stigmas 2, sessife; Capsule with seeds downy.

317. ACNIDA.—Lin.

MALE. Calyx 5-leaved; Corol o. FEMALE. Calyx 2-leaved; Corol o; Styles 5, Seld 1, covered with the succulent calyx.

618. HUMULUS.—Lin.—Hop.

MALE. Calyx 5 leaved; Corol o.
FEMALE. Calyx 1-leafed, chiquely expanding, entire; Corol); Styles 2;
Seed 1, within the leafy calyx.

. . . 6...HEXANDRIA.

619. SMILAX.—Lin.

MALE. Calyx 6-leaved; Corol o.
FEMALE. Calyx 6-leaved; Corol o;
Stytes 3; Berry superior, 3-celled;
Seeds 2.

620. DIOSCOREA.-Lin.-YAM.

MALE. Calyx in 6 deep segments; Co-

FEMALE. Calyx in 6 deep segments; Corol o; Styles 3; Capsule inferior 3lobed, 3-celled, compressed; Seeds 2 in each cell, bordered.

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... 7....Polyandria....(Stamens more than 7.)

621. POPULUS .- Lin .- POPLAR, ASPEN, &c.

MALE. Ament imbricated with 1-flowered fringed scales; Corol top-shaped, ob-lique, entire; Stamens 8-16.

FEMALE. Ament as in the male; Corol as in the male; Stigma 4-cleft; Capsule 2-celled, 2-valved; Seeds numerous, downy.

622. GYMNOCLADUS.—Lam.—GUILANDI-

MALE. Calyx 5-cleft, tubular; Corol 5petalled, equal, inserted on the tube of the calyx; Stamens 10.

- FEMALE. Calyx and corol as in the male; Style simple; Legume large, fleshy, many-celled; Seeds 1, in each cell.
- \$23. GLEDITSIA .- Lin .- Honer-Locust .or 3- THORNED ACACIA.

MALE. Calyx 3-leaved; Corol 3-petalled; Stamens 6.

FEMALE. Calyx 5-leaved; Corol 5-petalled ; Pistil 1; Legume with 1 or more

HERMAPHRUDITE. Calyx 4-leaved: Corol 4-petaileu; Stamens 6; Pistil 1; Legume as in the female.

624. HYDROCHARIS.—Lin.—Frogs-Bit.

Corol 3-petalled; Stamens 9, in 3 ranks.

FEMALE. Spathe o; Calyx 3-cleft; Corol 3-petalled; Styles 6, cloven; Cansule 6-celled, many-seeded.

625. DATISCA .- Lin .- BASTARD-HEMP.

MALE. Calyx 5.leaved; Corol o; Anthers 15, oblong, nearly sessile.

FEMALE. Calyx 2-toothed; Corol o: Styles 3; Capsule inferior, triangular, 3-horned, pervious, 1 celled, many-seeded.

626. MENISPERMUM .- Lin .- MOON-SEED.

MALE. Calyx 6-leaved; Corol 6 or 8-petalled; Stamens 6 to 16.

FEMALE. Calyx and Corol as in the

male; Stamens 8, barren; Germs 2 or. 3, pediceiled, with obtuse stigmas; Berries 2-3-grained.

627. ZAMIA.-Lin.

Spadix oblong, cylindric, naked or without a spathe

MALE. Scales of the spadix nearly peltate, with numerous anthers beneath.

FEMALE. Scales peltate with 2 germs beneath; Style o; Stigmas 2-headed; Berries 2, oval, fleshy, 1-celled, 1-secded.

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628. CISSAMPELOS.—Lin.

MALE. Calyx 4-leaved; Corol o; Sigmens 4, attached to a nectariferous disk at the centre of the flower

FEMALE. Calyx 1-leafed, opening laterally; Corol 1-petalled, ovate, opening laterally; Stigmas 3; Berry globular 1-seeded.

629. JUNIPERUS.—Lin.—JUNIPER.——CE-

MALE. Ament conic, covered with 1-floweved scales: Corol o: Anthers 3 to 8.

FEMALE. Ament globular formed of & converging 1-flowered scales; Corolo; Stigma tubular; Strobile spherical, berry-like, formed of 3, 1-seeded nuts.

630. TAXUS .- Lin .- YEW.

MALE. Calyx a bud of 4.7 scales; Corol o; Stamens 10; Anthers at first roundish, afterwards peltate and 8-cleft.

FEMALE. Calyx as in the male; Corolo; Style o; Nut bony, 1-seeded, immersed in the receptacle, become berrylike.

681. EPHEDRA .- Lin .- SEA-SIDE GRAPE.

MALE. Calyx the scale of an ament, in 2 segments; Corol o; Stamens 7; Anthers, 4 inferior, 3 superior.

FEMALE. Catyx cloven, 5-fold; Corol o; Pistits 2; Seeds 2, inclosed in the pulpy calyx.

(CLASS....POLYGAMIA.)

CLASS XXII....CRYPTOGAMIA,

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Order 1....FILICES....FERNS.

A.—Capsules furnished with an elastic ring.

a. Involucrum o.

632. ACROSTICHUM.—Lin.—WALL-RUE.—
FORK-FERN,

Capsules forming an indeterminate spot or assemblage, over the back of the leaf.

633. POLYPODIUM.—Lin.—Polrpodr.

Capsules in roundish, scattered spots.

b. Shots veiled with an Involucrum.

634. ASPIDIUM.—Swartz.—Polrpodium.—Lin.

Spots roundish, scattered, covered with an umbilicated, more or less circular, involucrum.

635. ASPLENIUM.—Lin.—Spleen-word.

Shots linear, straight, scattered; Involucrum lateral, separating inwards.

636. SCOLOPENDRIUM.—Smith.—Asple-NIUM.—Lin.

> Spots linear, in pairs, scattered; Involucrum of 2 opposite superficial valves, folding over each other,

637. PTERIS .- Lin .- BRAKE.

Spots linear, continued, marginal; Involucrum from the inflexed margin of the leaf, uninterrupted, separating inwards.

638. VITTARIA.—Smith.

Spots linear, continued, longitudinal along the disk or near the edge of the leaf; Involucrum double, uninterrupted; one separating outwards, the other inwards.

639. ONOCLEA.—Lin.—SENSIBLE POLTPO-

Shots indeterminate, entirely covering the backs of some leaves; Involucrum from the membranous, revolute margin of the leaf, either continued or interrupted, separating inwards.

640. BLECHNUM.—Lin.

Shots linear, longitudinal, continued, parallel, one on each side of the rib; Involuctum superficial, continued, separating inwards.

641. WOODWARDIA.—Smith.—Blechnum. —Lin.

Shots oblong, distinct, lying near the rib; Involucrums superficial, (from the surface, not from the margin nor rib) vaulted, separating inwards.

642. ADIANTUM .- Lin .- MAIDEN-HAIR.

Spots roundish or linear, distinct, marginal, growing upon the inner side of the membranous involucrums, which are formed out of the reflexed edge of the leaf, and separate inwards.

643. CHEILANTHES.—Swartz.

Spots roundish, distinct, marginal, each covered with a distinct membranous involucrum, formed of the reflexed crenate edge of the leaf, separating inwards.

644. DICKSONIA .- Smith,

Spiots roundish, separate, marginal, involucrum double, one superficial separating outwards, the other from the inflexed margin of the frond, separating inwards.

B.—Capsules of one cell, destitute of a distinct ring, opening by a longitudinal fissure on one side.

645. SCHIZAEA.—Smith.

Capsules crowded, sessile, on the backs of several appendages to the leaf; Involucrum from the inflexed margin of each appendage, uninterrupted.

646. LYGODIUM.—Swartz.—CTEISIUM.— Mich — HrdRoglossum — Willd.

Capsules solitary, sessile within the imbricated 2-ranke scales, of terminal or lateral spiked appendages to the leaf.

647. OSMUNDA.-Lin.-FLOWERING-FERN.

Capsules crowded, stalked, naked on the metamorphosed leaflets of the frond.

C .- Capsules destitute of all traces of a ring.

648. BOTRYCHIUM.—Swartz.—Osmunda.
—Lin.

Capsules distinct, sessile, crowded into a cluster, of 1 cell and 2 valves, bursting transversely.

649. OPHIOGLOSSUM.—Lin.—Adder's-

Capsules united into a 2-ranked, somewhat jointed spike, of 1 cell and 2 valves, bursting transversely.

D.—Capsules axillary, naked.—(Lr-copodacea.)

650. LYCOPODIUM.—Lin.—Wolfe's-foor.. Capsules of 1 cell.

651. PSILOTUM.—Swartz—BERNHARDIA.— Willd.—NAKED WOLFE'S-FOOT. Capsules of 3 lobes and 3 cells.

E.—Seeds naked.—(EQUISETA.)

652. EQUISETUM .- Lim - Horse TAIL.

Ament with peltate scales, fructifying on their inside; Partial Involucrums tubular, of 2 valves; Seeds numerous, naked, surrounded by 4 spiral stamens.

Order 2...Musci...Mosses.

- a. Capsule furnished with a double fringe.
- 653. FONTINALIS.—Lin.— WATER-MOSS.

 Cafisule enveloped in a lateral scaly sheath; Outer fringe of 16 teeth, dilated at the base; inner reticulated

554. POLYTRICHUM.—Lin.—- GREAT FIR MOSS.

Quter fringe of 32 or 64 short, flat, inflexed, teeth; inner a transverse orbicully membrane, affixed to the teeth of the cuter; Veil mostly double, the outer hairy.

655. HYPNUM .- Lin .- LESKEA .- Hedw.

Capsule ovate-oblong, from a lateral scaly sheath; Outer fringe of 16 teeth dilated at the base; inner membranous, variously toothed; Veil smooth.

656. BRYUM.—Lin.—THREAD-MOSS.

Capsule ovate, oblong, smooth; Outer fringe of 16 teeth, dilated at the base; inner membranous, toothed; Flowers terminal.

657. MNIUM.—Lin.

Capsule terminal, cylindrical, furrowed; Outer fringe of 16 awl-shaped teeth; inner membranous, laciniated.

658. BARTRAMIA.—Hedwig.—Barun— Liu.

Capsule spherical, furrowed; Outer fringe of 16 awl-shaped teeth; inner membraneus, laciniated.

659. BUXBAUMIA.-Lin.

Capsule oblique, gibbous on one side; Outerfringe of 16 very short teeth, in ner membranous, plated.

660. FUNARIA.-Hedw.-Mnium -Lin.

Capsule obovate; Outer fringe of 16 oblique teeth, cohering at the points; inner of 16 flat teeth; Veil quadrangular.

661. NECKERA.—Hedw.—Hrpnum, etc.— Lin.

Capsule from a lateral scaly sheath; Outer fringe of 16 teeth; inner of 16 capillary ones; Veil naked and even.

662. ORTHOTRICHUM.—Hedw.—BRYUM. —Lin.

Cafisule terminal; Outer fringe of 16 teeth; inner of 8 or 16 amear ones, sometimes altogether deficient; Veil furrowed.

b. Capsule with a simple fringe.

663. TORTULA.—Hedw.—BARBULA.—ib.—i BRYUM —Lin.

Fringe of numerous linear teeth, spirally and repeatedly twisted together. \$64. TRICHOSTOMUM.—Hedw—Brruu.— Lin.

Fringe of 32 linear, straightish teeth, approaching each other in pairs, sometimes joined in pairs at the base.

665. DICRANUM.—Hedw—Fissidens.—Ib.

Fringe of 16 flat, somewhat inflexed teeth, cloven half way down.

666. GRIMMIA.—Hedw.—Brrum.—Lin.

Fringe of 16 equi-distant teeth, dilated at the base; veil cylindrical.

667. PTERIGONIUM.—Hedw.—Hrrnum.— Lin.

Fringe of 16 linear upright teeth; Capsule from a lateral sheath.

668. SPLACHNUM.—Lin.—Bottle moss.

Fringe of 16 teeth, dilated at the base approaching each other in pairs; Capable cylindrical, standing on a fleshy base.

669. TETRAPHIS.—Hedw.—MNIUM.—Lin.
Fringe of 4, erect, acute, firm, polished,
permanent teeth.

c. Capsule without a fringe.

670. PHASCUM.—Lin.—EARTH-MOSS.

Capsule oval, nearly sessile, terminal;

Lid of one piece with the capsule, bursting irregularly at one side.

671. SPHAGNUM .- Lin .- Bog-Moss.

Cansule spherical or oval, axillary or terminal, nearly sessile; Lid deciduous.

673. GYMNOS FOMUM.—Hedw—Brrum.— Lin.

Capsule oval or pear-shaped, erect; Lid decidurus; Veil separating entire from the base.

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Order 3....HEPATICE....LIVERWORTS.

Herb frondose (consisting of leaf and stem united,) capsules destitute of an operculum.

674. RICCIA.—Lin.

Capsules sessile, globular, 1-celled, growing at the apex of the leaf, and containing from 20 to 30 brown or white seeds. With.

675. ANTHOCEROS.-Lin.

Capsules awl-shaped, 2-valved; Seeds attached to a central, filiform receptacle.

676. MARCHANTIA.—Lin.

MALE. Calyx salver-shaped; Anthers numerous, imbedded in its disk.

FEMALE. Calyx target-shaped, flowering on the under-side; Capsules opening at the top; Seeds fixed to elastic fibres.

677. JUNGERMANNIA.—Lin.

MALE. Anthers aggregate, in powdery, heads.

FEMALE. Capsule of 4-valves, on a stalk, rising from a tubular calyx; Seeds attached to elastic filaments.

000

Order 4....ALGE.-FLAGS.

Plant membranous or filamentous, with obscure fructification; firincifally aguatic.

1st. Section .- Fructification vesiculous .- Fucto

678. FUCUS .- Lin .- SEA-WEED.

Germ imbedded in the gelatinous internal substance of a membranous or coriaceous frond, aggregate; Seeds produced in clustered tubercles, which burst at their summits.

679. ULVA. - Lin. - LAVER.

Fructifications in a vesicular diaphanous membrane, without a frond.

2d. Section. - Fructification filamentous. - Con-

680. CONFERVA.-Lin.

Filaments cartilaginous or herbaceous, divided by partitions; Seeds enclosed

between the partitions and escaping only by destruction of the tube itself.

681. CERAMIUM .- Roth .- CONFERVA .- Liv.

Filaments membranous, cartilaginous, without partitions; Capsules monospermeus, adhering to the external surface of the filaments.

682. VAUCHERIA.—Decand.—Conferra. —Lin.

Filaments herbaceous, simple or branched without partitions; Seeds attached to the exterior side of the filaments and generally peduncled.

683. BATRACHOSPERMUM.—Roth.—Con-

Filaments knotty, jointed gelatinous; Knots formed of filaments, simple or compound, between which are found seeds or shoots, detaching themselves, and consisting of filaments already jointed.

684. CHANTRANIA.—Decand.—CONFERVA. —Lin.

Filaments solid, knotty; knots separating and becoming new plants, in the way of slips or cuttings.

685. HYDRODYCTIUM.—Roth.—Confer-

Tube cylindrical, closed at the two extremities, and anastomosing into pentagonal meshes; Filaments of the Pentaugon swelling at their extremities, separating and becoming themselves cylindrical tubes, closed at the enus, and composed of pentagon meshes.

686. BYSSUS.—Lin.

Filaments simple, uniform, like fine down.

Order 5....LICHENES.- LICKENS,

Plant crustaceous or voriaceous or leafy or caulescent; Fructification inscattered wart-like substances, tubercles, shields, Gc.—Found on rocks, stones, trunks of trees, Gc.

GENERA according to ACHARIUS.

Family 1.—CRUSTACEOUS LICHENS.

Having a crustaceous, more or less expanded base.

- A .- Crust irregular, nowdery, or in fibrous flakes.
- 687. LEPRARIA.-- Receptacles scarcely known
 —(Most of these come under the genus
 Byssus in Linnaus.)
 - B.—Crust solid, flattish, uniform, nearly orbicular.
- \$88. VERRUCARIA.—Receptacles (thalani.) hidden in the crust, roundish, concave, opening by a perforation at the top.
- 689. OPEGRAPHA.-—Clefts (lixellæ) closely attached to the crust, and opening longitudinally.
 - 690. VARIOLARIA.—Powdery little masses (glo mexuli) attached to the surface of the crost.

- 591. URCEOLARIA.—Shields hollowed sunk in portions or warts of the surface of the crust.
- 692. PATELLARIA.—Shields attached to the surface of the crust, either concave or flat with a border, or convex and hemispherical, with scarcely any.
- 693. BÆOMYCES.—Tubercles smooth and even, nearly globose, fungus-like, terminating elevated stalks.
- 694. CALICIUM.—Tubercles stalked, lenticular, opening by a torn border, discovering a powdery elevated disk.
 - C.—Crust unequal, composed of corallike, crowded little branches.
- 695. ISIDIUM .- Tubercles terminal.

D.—Crust rather leafy.

- 696. PSOROMA.—Crust irregular, covered with minute somewhat imbricated scales; Shields lateral as well as marginal.
- 697. PLACODIUM.—Crust close-pressed, flat, orbicular with a lobed permanent margin; Shields lateral.

Family 2.-LEAFY LICHENS.

- Without a stem, and consisting of w simple or multiplied, sessile, divided, somewhat membranous leaf.
- E.—Receptacles, scattered, sessile on the leaf.
- 198, IMBRICARIA.—Shields and powdery masses (Glomeruli) lateral; Leaves membranous, depressed, imbricated, spreading circularly, minutely fibrous underneath.
- 699. COLLEMA.—Shields lateral and marginal; Leaves gelatinous.
- 700. ENDOCARPON.—Receptacles (thalami) hollow, immersed in the leaf, opening by a prominent mouth.
- 701. UMBILICARIA.—Receptaties (trice)
- 702. LOBARIA.—Shields and powdery masses lateral; Leaves somewhat coriaceous, widely spreading, ascending, villous underneath.
- 703. STICTA.—Shields scattered; or Targete marginal; Leaves somewhat coriaceous, stamped beneath with little bald pits, amongst down.
- 704. PELTIDEA.—Targets lateral and somewhat marginal, on the front or the back

- of the leaf; Leuves coriaceous, mostly veiny, as well as downy beneath.
- 705. PLATISMA.—Shields target-like, scattered; Leaves membranous, ascending, crisped, naked on both sides.
- 706. PHYSCIA.—Shields scattered; Leaves rather cartilaginous, smooth, tufted, in near and jagged.
 - F.—Receptacles elevated far above the leaves, on the tops of stalks.
- 707. SCYPHOPHORUS.—Tribercles on hollow stalks, dilated upwards and closed.
- 708. HELOPODIUM.—Tubercles fungous, on nearly solid, simply sub-divided stalks, scarcely dilated upwards.
- 709. CLADONIA.—Tubercles nearly globose, on taper-pointed, elongated, tubular, branched and shrubby stalks.

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Family 3.—CAULESCENT LICHEUS.

Stems either solid, branched, round and shrubby, or elongated and thread or strap-like.

G.—Skrubby, with solid stems.

710. STEREOCAULON.—Shielde globose, selid, scattered.

- 711. SPHÆROPHORUS.—Cellules terminal, finally bursting.
- 712. CORNICULARIA.—Shields radiated, at length rather convex, terminal.

H .- Filamentous elongated.

- 713. SETARIA.—Shields and powdery masses lateral; Branches naked, smooth and contiguous.
- 714. USNEA.—Shields flat and radiated, or convex and slightly bordered, scattered; as well as powdery masses; Branches with a crustaceous, somewhat jointed coat.

Order 6....Fungi.—Mushrooms, &

A .- Seeds on the under surface.

715. MERULIUS .- Juss .- AGARICUS .- Lin.

Pileus with gills or veins underneath, of the same substance with the rest of the plant.

716. AGARICUS.—Lin.——Common mush-ROOM.

Pileus with gills underneath; Gills differing in substance from the rest of the plant, composed of 2 lamina; Seeds in the gills.

717. BOLETUS.—Lin.—Porous Mushroom. Pileus with united tubes underneath; Seeds in the tubes.

718. HYDNUM.—Lin.—PRICKLY-MUSHROOM.

Fungus horizontal, hedge-hogged underneath with awl-shaped substances, emitting seeds from every part of their surface.

719. HELVELLA.—Lin.

Pileus on a stem; smooth on both sides; Seeds thrown out from the under surface.

720. AURICULARIA.—Lam.—THELEPHORA. —Persoon.

Pileus sessile, coriaceous, variable in form, fixed by its underside, but de-

taching itself and turning up with age i under surface rough with papilla or smooth, without pores.

B .- Seeds on the upper surface.

721. PEZIZA.—Lin.—Cup-Mushroom.

Fungus concave; Seeds on the upper surface only, discharged by jerks.

722. NIDULARIA.—Bull.—Crathus.—Juss. Pers.

Fungus leather-like, bell shaped, sitting; Seeds or rather Capsules large, flat, fixed by pedicles, at the bottom of the bell.

723, PHALLUS.—Lin.—MOREL.

Fungus with a stem; Pileus smooth on the under surface, with a net-work of cells on the upper surface; Seeds in the cells.

C.—Seeds on every part of the surface.

724. CLAVARIA.—Lin.—Club-mushroom.

Fungue uniform, upright, club shaped; Seeds emitted from every part of its surface.

745. TREMELLA.—Lm.

Substance jelly-like, or cartilaginous, or fleshy, generally covered with a membrason skip.

D. Seeds in the substance of the plant.

726. TUBER. - Bullt. - Lreoperdon. - Lin. TRUFFLE.

Fungus without a stem, fleshy, solid, not becoming powdery, not opening at top.

727. LYCOPERDON .- Lin. PUFF-BALL.

Fangus roundish, fleshy, generally sest sile; becoming powdery and opening at the top; Seeds fixed to filaments connected with the inner coat of the plant.

728. CLATHRUS.—Lin.—LATTICED MUSH-ROOM.

Fungüs with a membranous veil (volva);
Pileus roundish, sessile, with anastomosing branches; Seeds enclosed in the substance of the branches.

729. RETICULARIA.—Bull.—Lrcocala...

Fungus round shor oblong, soft and gelatinous when young; when older, firm, friable, tearing open indiscriminately, and discovering seeds entangled in capillary fibres, reticulated membranes, or leather-like cases.

630. SPHÆRIA.—Persoon.

Fungus of various shapes; Fructifications mostly spherical, filled with a power dery mass, without fibres.

731. TRICHIA.—Bull.—CLATHRUS.—Lin.

Capsules sessile, or on a stem, globular or oblong, mostly fixed to a membra-nous base; Seeds escaping from the whole surface of the capsule, through the interstices of the fibres.

732. MUCOR.—Lin.—Mould.

Fungue consisting of vesicles on fruitstalks, containing a number of seeds.

ADDITIONS and CORRECTIONS.

000

CLASS 1 MONANDRIA.

Order 1 MONOGYNIA.

After CANNA .- No. 1.

733. THALIA .- Willd.

Calyx 3-leaved; Corol 5-petalled, the 2 interior petals smaller; Nectary lanceolate, concave; Drupe with a 1-celled nut.

... 2...Digynia.

After BLITUM .- No. 5.

784. BOERHAAVIA.-Lin.

Calyx with an entire margin; Corol 1petalled, campanulate, folded; Seed 1, naked, inferior.

000

CLASS 3....TRIANDRIA.

Order 2....DIGYNIA.

After TRICHODIUM .- No. 56.

735. PHLEUM.—Lin.—CATS-TAIL.-(TIMO-THY.)

Calyx 2-valved, 1-flowered, sessile, lie

near, truncate, ending in a point, inclosing, and longer than the corol.

736. DACTYLIS.—Lin—Cocks-foot.—(Orchard-grass.)

Calyx 2-valved, compressed; one of the valves larger and carinate.

After LIMNETIS .- No. 62.

737. LOLIUM .- Lin .- DARNEL.

Calyx 1-leafed, fixed, many-flowered; Florets in a 2-rowed spike.

738. HORDEUM.-Lin.-BARLEY.

Calyw lateral, 2-valved, 1-flowered, growing 3 together.

739. TRITICUM.—Lin.—WHEAT.—-Couch-GRASS.

Calyx 2-valved, solitary, alternate, on a flexuous common receptacle, and containing 3 or more rather obtuse but pointed florets.

000

CLASS 4....TETRANDRIA

Order 1....Monogynia.

After DIODIA.—No. 99.

c .- Flowers aggregate.

740. DIPSACUS.—Lin.—TEASEL.

Common Calyx many-leaved; proper

Calyx superior, one-leafed; Receptecle chaffy; Seed with a cup-shaped crown.

741. ALLIONIA.—Lin.

Common Catyx oblong simple, 3-flowered; froher Catyx obsolete, superior; Florets irregular; Receptacle naked.

000

CLASS 5....PENTANDRIA.

Order 1...Monogynia.

After Onosmodium.—No. 121.

742. SYMPHYTUM.-Lin.-Comfrer.

Calyx 5-parted; Corol with a tubular swelling border, the throat closed with subulate rays.

743. ECHIUM .- Lin .- VIPERS BUGLOSS.

Calyx 5-parted; Corol irregular with the throat naked; Stigma cloven.

After PRIMULA .- No. 127.

744. CYCLAMEN .- Lin .- Sow-BREAD.

Calyx half 5-cleft; Corol rotate, tube very short, with a prominent orifice; border 5-parted, reflexed; Stamens within the tube; Berry covered with a capsule.

+ 745. HOTTONIA. Lin. FEATHER-FOIL.

Calyx 5-parted; Corol salver-shaped

Stamens inserted in the throat, opposite the lobes; Stigma globular; Capsule 1-celled.

After DICHONDRA.-No. 137.

746. HYOSCYAMUS.—Lin.—HEN-BANE.

Calyx tubular 5-cleft; Corol funnel form obtuse, irregular; Stamens inclined; Capsule covered with a lid, 2-celled.

After RHAMNUS.—No. 161.

747. ZIZYPHÚS.-Lin.

Calyx tubular; Petals 5 scales opposite the stamens; Drupe with a 1 or 2-celled nut.

Order 2...DYGINIA.

After Asclepias .- No. 182.

748. PERIPLOCA.—Lin.

Calyx 5-cleft; Corol twisted; Nectary surrounding the parts of fructification, putting forth 5 threads.

After SELINUM .- No. 208.

749. CAUCALIS .- Lin .- HEDGE PARSLEY.

Involucre with undivided leaflets; Flowers radiate, the central ones abortive; Fruit somewhat egg-shaped striated, armed with rigid bristles.

750. CONTUM.—Lin.—HEMLOCK.

Partial Involucres halved, generally 3leaved; Petals equal; Fruit nearly globular, with 5 crenulate ridges.

After Cicura.-No. 210.

751. SCANDIX.—Lin.—CICELY.

Corol radiate; Peials emarginate; central florets often abortive; Fruit subulate.

P. 33. c.—read — Without a partial Involucre; and rarely a general Involucre.

After THAPSIA .- No. 212.

752. PASTINACA .- Lin .- PARSNIP.

Petals involute, entire, nearly uniform; Fruit elliptic, compressed, flat.

753. APIUM.-Lin.-PARSLEY.

Involucre 1-leafed; Petals inflected, uniform; Fruit ovate, ribbed.

Ordor 3....TRIGYNIA.

P. 34. B.—read—Corols 5-petalled, inferior.

After SAROTHRA .- No. 217.

754. TURNERA.—Lin.

Calyx 5-cleft, funnel-form, the exterior one 2-leaved; Petals 5, inserted on the calyx; Stigma many-cleft; Cansulc 1-celled, 3-valved.

...150...

ALSINE see STELLARIA.—No. 312.

755. PHARNACEUM.-Lin.

Calyx 5-leaved; Corol o; Capsule & celled many-seeded.

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CLASS 6....HEXANDRIA.

Order Monogynia.

After PRINOS .- No. 230.

756. FLOERKEA .- Willd.

Calyx 3-leaved; Corol 3-petalled; Style bifid; Bladder (utriculus) 2-grained.

000

CLASS 8....OCTANDRIA.

Page 33.—Order 4....TETRAGYNIA, should be

Order 3....TRIGYNIA.

After Politionum.—No. 282.

757. COCCOLOBA.-Lin.-SEA-GRAPE.

Calyx 5-parted, coloured; Corol o; Berry calycine, 1-seeded.

Order 4....TETRAGYNIA.

758. ELATINE. Lin WATER-WORT.

Calyx 4-leaved; Petals 4; Capsulc su

perior 4-celled, 4-valved, many-seeded, the partitions opposite to the fissures.

000

CLASS 10....DECANDRIA.

Order 1 Monogynia.

After Jussieua.-No. 295.

759. TRIBULUS .- Lin .- CALTROPS.

Catyx 5-parted; Petals 5, spreading; Style 0; Capsules 5, gibbous, spinous, many-seeded.

760. SCLERANTHUS.—Lin.—KNAWEL.

Calyx 1-leafed, inferior; Corol o; Seeds 2, inclosed in the calyx.

000

CLASS 11....DODECANDRIA.

After TRIUMFETTA .- No. 332.

761. TALINUM.—Lin.

Calyx 2 or 5-leaved; Corol 5-petalled; Capsule 3-valved, many-seeded; Seeds coated.

CLASS 12....HOSANDRIA.

Page 59.—After CRATAEGUS.—Insert

Order 3....TRIGYNIA

762. SESUVIUM.—Lin.

Calyx 5-parted, coloured; Corol o; Capsules ovate, 3-celled, opening transversely all round, many-seeded.

SORBUS.—See PYRUS.—No. 340.

900

CLASS 13....POLYANDRIA.

Order 1....Monggynia.

763. ARGEMONE. — Lin. — PRICKLY-POPPY.

Calyx 3-leaved; Corol 6-petalled; Stigma 5-lobed; Capsuls half-valved, many-seeded.

Order 5....Polygynia.

764. ATRAGENE.-Lin.

Calyx o; Corol double; Petals numerous, the outer ones larger; Seeds tailed.

765. TROLLIUS.—Lin.—Globe-flower.

Calyx o; Petals about 14; Nectaries about 9, flattened; Cafisules numerous, oblong many-seeded.

CLASS 14....DIDYNAMIA.

Order 1....Gymnospermia.

After Cunila.- No. 390.

766. GLECHOMA .- Lin .- GROUND-IVY.

Calyx 5-cleft; Anthers in pairs, each pair forming a cross.

After CLINOPODIUM .- No. 395.

767. THYMBRA.—Lin.

Calyx sub-cylindrical, 2-lipped, furrowed on both sides with a villous line; Style half 2-cleft.

Order 2....ANGIOSPERIMA.

After Schwalbea .- No. 409.

768. ZAPANIA.—Mich.—LIPPIA.—Lam,

Calyx 3-4-cleft; Corol tubular, irregualar, 5-lobed; Seeds 2, somewhat naked.

769. ERINUS.—Lin.

Calyx 5-leaved; Corol with a 5-cleft, equal border, the lobes notched; Capsule 2-celled, many-seeded.

770. VITEX.—Lin.—CHASTE-TREE.

Calyx 5-toothed; Corol with a 6-cleft border; Drupe with a 4-celled nut.

CLASS 15....TETRADINAMIA

Order 1 ... SILICULOS ...

After LEPIDIUM No. 426.

771. THLASPI .- Lin .- SHEPHERD'S-PURSE.

Calyx 4-leaved, spreading; Corol 4-petalled; Silicle notched, inverse heart-shaped, many-seeded; Valves like a keeled boat, often winged with a border; Cells many-seeded.

000

CLASS 16....MONADELPHIA.

After PASSIFLORA .- No. 435.

Order 2....PENTANDRIA.

772. ERODIUM.—L'Herit.—GERANIUM,— Lin.—Storks-bill.

Calyx 5-leaved; Corol 5-petalled; Nectaries 5-glands; Barren filaments 5; Fruit beaked of 5 aggregate capsules, each tipped with a long spiral awn bearded on the inside.

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